SONY®

DIGITAL MASTER SWITCHER

DVS-M1000C

MASTER SWITCHER CONTROL PANEL

BKDS-M1010

BKDS-7102
BKDS-7162
BKDS-7270
BKDS-M1040
BKDS-M1090
BKDS-M1310
BKDS-M1441
BKDS-M1442
BKDS-M1690
BKDS-M1810
BKDS-M1820
BZS-M1020
BZS-M1120

MAINTENANCE MANUAL Part 1
1st Edition (Revised 1)

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理など行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

DVS-M1000C	Serial No. 10001 and Higher
BKDS-7102	Serial No. 10001 and Higher
BKDS-7162	Serial No. 10001 and Higher
BKDS-7270	Serial No. 10001 and Higher
BKDS-M1010	Serial No. 10001 and Higher
BKDS-M1040	Serial No. 10001 and Higher
BKDS-M1090	Serial No. 10001 and Higher
BKDS-M1310	Serial No. 10001 and Higher
BKDS-M1441	Serial No. 10001 and Higher
BKDS-M1442	Serial No. 10001 and Higher
BKDS-M1690	Serial No. 10001 and Higher
BKDS-M1810	Serial No. 10001 and Higher
BKDS-1820	Serial No. 10001 and Higher
BZS-M1020	Serial No. 10001 and Higher
BZS-M1120	Serial No. 10001 and Higher

WARNING

This unit has no power switch.
When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to a socket-outlet which must be provided near the unit and easily accessible, so that the user can turn off the power in case a fault should occur.

WARNUNG

Dieses Gerät hat keinen Netzschalter.
Beim Einbau des Geräts ist daher im Festkabel ein leicht zugänglicher Unterbrecher einzufügen, oder das Netzkabel muß mit einer in der Nähe des Geräts befindlichen, leicht zugänglichen Wandsteckdose verbunden werden, damit sich bei einer Funktionsstörung die Stromversorgung zum Gerät jederzeit unterbrechen läßt.

Attention-when the product is installed in Rack:

1. **Prevention against overloading of branch circuit**
   When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. **Providing protective earth**
   When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. ***Internal air ambient temperature of the rack***
   When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. **Prevention against achieving hazardous condition due to uneven mechanical loading**
   When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

安全のために

ソニー製品は安全に十分に配慮して設計されています。しかし，電気製品はサービス時にまちがった扱い方をすると，火災や感電などにより死亡や大けがなど人身事故につながることがあり，危険です。
事故を防ぐために，サービストレーニングを受けた技術者以外はサービスを行なわないでください。
設置や保守，点検，修理などを行う前に，この「安全のために」と別冊のオペレーションマニュアルの「⚠警告・⚠注意」を必ずお読みください。

警告表示の意味
このサービス用のマニュアルおよび製品では，次のような表示をしています。表示の内容をよく理解してから本文をお読みください。

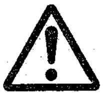
⚠警告

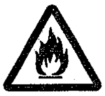
この表示の注意事項を守らないと，火災や感電などにより死亡や大けがなど人身事故につながることがあります。

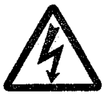
⚠注意

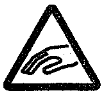
この表示の注意事項を守らないと，感電やその他の事故によりけがをしたり周辺の物品に損害を与えたりすることがあります。

注意 を促す記号

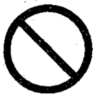

注意


火災

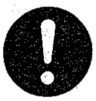

感電

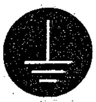

指挟み

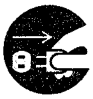
行為を 禁止 する記号


禁止

行為を 指示 する記号


強制


アース線を
接続せよ


プラグをコン
セントから抜く

⚠警告 火災 感電 下記の注意を守らないと，
火災や感電による死亡や大けががにつながることがあります。

強制

専用ブレーカを設置する

コントロールパネルBKDS-M1010は電源スイッチを備えていません。
設置の際には，本機の近くの容易に接近できる屋内配線内に専用ブレーカまたはスイッチを設けるか，または本機の使用中でも容易に抜き差しできるコンセントに電源プラグを接続してください。
万一，異常が生じた場合は，専用ブレーカまたはスイッチをOFFにするか，電源コードを抜いてください。

強制

指定された電源コードを使用する

指定以外の電源コードを使用すると，火災や感電の原因となります。
インストレーションマニュアルあるいはメンテナンスマニュアルで指定されている電源コードをお使いください。

禁止

電源コードを傷つけない

電源コードを傷つけると，火災や感電の原因となります。
ラックや調整卓に設置するとき，電源コードをはさみ込まない。

強制

指定された部品を使用する

回路図，分解図，電気部品表中⚠印の部品（ヒューズ，電源ユニットなど）は安全性を維持するために重要な部品です。指定外の部品に交換すると火災，感電の危険があります。
必ずマニュアルで指定している部品を使用してください。

禁止

ラックマウントした機器を，2台以上同時に引き出さない

2台以上同時に引き出すと，機器の重みでラックが転倒し，大けがの原因となります。
一度にラックから引き出すのは1台だけにしてください。
また，ラックが転倒・移動しないように固定してください。

禁止

油煙，湯気，湿気，ほこりの多い場所では設置・使用しない

上記のような場所で設置・使用すると，火災や感電の原因となります。

プラグをコンセントから抜く

電源ユニットの設置，交換，修理の時は電源コードを抜く

電源スイッチを切っただけでは機器内部に活電部が存在し，感電の危険があります。作業を始める前に必ず電源コードを抜いてください。オプションの電源ユニットを増設した機器は，必ず電源コードを2本とも抜いてください。

⚠注意　下記の注意を守らないと，
けがをしたり周辺の物品に**損害**を与えることがあります。

強制

安定した場所に設置する

ぐらついた台の上や傾いたところなどに設置すると，機器が落下してけがの原因となることがあります。

強制

ラックマウントは２人以上で行なう

本機をラックマウントするときは，必ず2人以上で行なってください。1人で行なうと，腰を痛めることがあります。

強制

指定されたラックマウントレールを使用する

指定以外のラックマウントレールを使用すると，レールの強度不足により，機器が落下してけがの原因となることがあります。

指挟み

ラックマウントレールに手や指をはさまない

ラックマウントした機器を収納するときおよび引き出すとき，ラックマウントレールに手や指をはさみ，けがの原因となることがあります。

注意

安定した姿勢でラックマウントする

本機をラックマウントするとき，および取り外すときに，バランスを崩すと製品が落下してけがの原因となることがあります。安定した姿勢で注意深く作業してください。

禁止

２台以上積み上げない

ラックを使用せずに2台以上積み上げると，機器が落下してけがの原因となることがあります。

⚠注意 下記の注意を守らないと，
けがをしたり周辺の物品に**損害**を与えることがあります。

禁止

通気孔をふさがない

通気孔をふさぐと内部に熱がこもり，火災の原因となることがあります。

- 逆さまや横倒しにしない。
- 風通しの悪い，狭いところに押し込まない。
- 毛足の長いじゅうたんや布団の上に置かない。
- 布をかけない。

強制

リダンダント電源機器は電源スイッチを２つとも切る

DVS-M1000C，コントロールパネルBKDS-M1010は，オプションの電源ユニットを増設しリダンダント電源とすることが可能です。次の作業を行う前に電源スイッチを２つとも切ってください。
感電やオプション機器の破損の原因となることがあります。

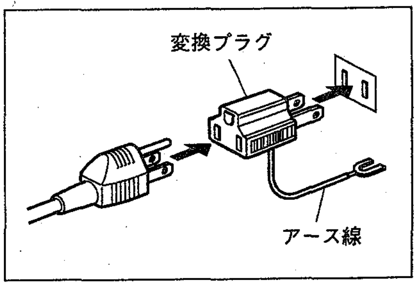
- オプション基板やオプションユニットの設置，取り外し。
- 点検や修理（電源ユニットを除く）。

アース線を
接続せよ

安全アースを接続する

安全アースを接続しないと，感電の原因となることがあります。次の方法でアースを接続してください。

- **電源コンセントが３極の場合**
  指定の電源コードを使用することで安全アースが接続されます。
- **電源コンセントが２極の場合**
  指定の３極→２極の変換プラグを使用し，変換プラグから出ている緑色のアース線を建物に備えられているアース端子に接続してください。



指挟み

指のはさみ込みに注意する

コントロールパネルBKDS-M1010のパネルの開閉をするとき，パネルとケースの間に指をはさむ危険があります。
パネルを開いたときは，必ずインストレーションマニュアルあるいはメンテナンスマニュアルの指示にしたがい，パネルを正しく固定してください。

目次

このマニュアルについて

本書の目的 3
構成 3
関連マニュアル 4

1. サービスインフォメーション

1-1. DVS-M1000C 1-1
  1-1-1. フロントパネルの開閉 1-1
  1-1-2. 基板配置図 1-1
  1-1-3. プラグイン基板の取り付け／取り外し 1-3
  1-1-4. データバックアップ用コンデンサについて 1-4
  1-1-5. Spare Parts 1-4
1-2. BKDS-M1010 1-5
  1-2-1. パネルの開閉 1-5
  1-2-2. 基板配置図 1-6
  1-2-3. 基板の取り付け／取り外し 1-7
  1-2-4. Spare Parts 1-12

2. 主要部品の交換

2-1. DVS-M1000C 2-1
  2-1-1. リアパネルのファンの交換 2-1
  2-1-2. 電源ユニットの交換 2-2
2-2. BKDS-M1010 2-3
  2-2-1. ロータリーエンコーダの交換 2-3
  2-2-2. LCD ディスプレイユニットの交換 2-5
  2-2-3. フェーダーユニットの交換 (BKDS-M1040) 2-6
  2-2-4. 電源ユニットの交換 2-8

3. トラブルシューティング (BKDS-M1010)

3-1. BKDS-M1010の自己診断モード 3-1
3-2. トラブルシューティング 3-2
  3-2-1. トラブルシューティングに必要な治具 3-2
  3-2-2. 自己診断モードで使用するつまみとボタンの位置 3-3
  3-2-3. 自己診断モードの起動 3-3
  3-2-4. テストの手順 3-4
  3-2-5. 自己診断モードの終了 3-9
3-3. プロセッサ (DVS-M1000C) のエラー表示 3-10

4. 定期点検および保守

4-1. クリーニング 4-1
  4-2-1. フロントパネル 4-1
  4-2-2. ファン 4-2

5. Overall Block Diagrams

5-1. DVS-M1000C 5-2
5-2. BKDS-M1010 5-4

Table of Contents

Manual Structure

Purpose of this manual 3
Contents 3
Related manuals 4

1. Service Overview

1-1. DVS-M1000C 1-1
    1-1-1. Opening and Closing of Front Panel 1-1
    1-1-2. Location of Mounted Circuit Boards 1-1
    1-1-3. Inserting/Pulling Out of Plug-in Boards 1-3
    1-1-4. Capacitor for Data Backup 1-4
    1-1-5. Spare Parts 1-4
1-2. BKDS-M1010 1-5
    1-2-1. Opening and Closing of Panel 1-5
    1-2-2. Location of Mounted Circuit Boards 1-6
    1-2-3. Installation and Removal of Boards 1-7
    1-2-4. Spare Parts 1-12

2. Replacement of Main Parts

2-1. DVS-M1000C 2-1
    2-1-1. Replacement of Fan on the Rear Panel 2-1
    2-1-2. Replacement of Power Unit 2-2
2-2. BKDS-M1010 2-3
    2-2-1. Replacement of Rotary Encoder 2-3
    2-2-2. Replacement of LCD Display Unit 2-5
    2-2-3. Replacement of Fader Unit (BKDS-M1040) 2-6
    2-2-4. Replacement of Power Unit 2-8

3. Trouble Shooting

3-1. Self Diagnostics Mode of BKDS-M1010 3-1
3-2. Trouble Shooting 3-2
    3-2-1. Tools Required for Troubleshooting 3-2
    3-2-2. Knobs and Buttons Used in the Self Diagnostics Mode 3-3
    3-2-3. Starting Up the Self Diagnostics Mode 3-3
    3-2-4. Test Procedures 3-4
    3-2-5. Terminating the Self Diagnostics Mode 3-9
3-3. Error Messages of Processor (DVS-M1000C) 3-10

4. Periodic Check and Maintenance

4-1. Cleaning 4-1
  4-1-1. Front Panel 4-1
  4-1-2. Fan 4-2

5. Overall Block Diagrams

5-1. DVS-M1000C 5-2
5-2. BKDS-M1010 5-4

このマニュアルについて
Manual Structure

本書の目的

本書は，デジタルマスタースイッチャー DVS-M1000C のメンテナンスマニュアルパート１です。
本書は，システム／サービスエンジニアの方々にご使用いただくことを想定し，本機の保守に関する情報，あるいはブロックおよび基板交換によるサービスを前提とした情報を記載しています。

構成

本書の構成を把握していただくために、全章の概略を以下に説明します。

第１章　サービスインフォメーション

パネルの開閉方法，基板配置図，基板の取り付け／取り外し方法，データバックアップ用コンデンサ，補修用部品について説明しています。

第２章　主要部品の交換

主要部品の交換方法について説明しています。

第３章　トラブルシューティング

BKDS-M1010の自己診断モードについて説明しています。

第４章　定期点検および保守

定期点検および保守の方法について説明しています。

第５章　Overall Block Diagrams

オーバーオールブロック図を記載しています。

Purpose of this manual

This manual is the maintenance manual part 1 of Digital Master Switcher DVS-M1000C.
This manual is intended for use by trained system and service engineers, and describes the information for general service and periodic maintenance with the intention of servicing including the replacement of the principal blocks and mounted circuit boards.

Contents

This manual is organized by following sections.

Section 1　Service Overview

This section describes the opening and closing of panel, location of mounted circuit boards, inserting/pulling out of plug-in boards, capacitor for data backup and spare parts.

Section 2　Replacement of Main Parts

This section describes the main parts replacement.

Section 3　Trouble Shooting

This section describes the self diagnostics mode of BKDS-M1010.

Section 4　Periodic Check and Maintenance

This section describes the periodic check and the maintenance.

Section 5　Overall Block Diagrams

This section describes the block diagrams for mounted circuit boards.

関連マニュアル

本機には，この「メンテナンスマニュアル　パート1」のほかに，下記のマニュアルが用意されています。

- ユーザーズガイド（BZS-M1020に付属）
  本機を実際に運用および操作するのに必要なマニュアルです。
- ユーザーズガイド（BZS-M1120に付属）
  GUIを操作するのに必要なオンラインマニュアルです。フロッピディスクにて供給されます。
- オペレーションマニュアル（本機に付属）
  本機の概要，システム構成例，仕様について記載したマニュアルです。
- インストレーションマニュアル（本機に付属）
  本機の納入設置時に必要な情報を記載しています。

- メンテナンスマニュアル　パート2 Volume1
  (ブロック図，フレーム図)
- メンテナンスマニュアル　パート2 Volume2
  (補修用部品，部品交換)
- メンテナンスマニュアル　パート2 Volume3
  (半導体ピンアサイン)
- メンテナンスマニュアル　パート2 Volume4
  (マウント図)
- メンテナンスマニュアル　パート2 Volume5
  (回路図1 A～I)
- メンテナンスマニュアル　パート2 Volume6
  (回路図2 K～Z)
  部品レベルまでのサービスを前提とした情報を記載したマニュアルです。入手を希望される方は，お買い上げの販売担当にお問い合わせください。

Related manuals

The following manuals are prepared for DVS-M1000C.

- User's Guide (Supplied with BZS-M1020)
  This manual describes the application and operation of DVS-M1000C.
- User's Guide (Supplied with BZS-M1120)
  This online manual is used to operate the GUI and is provided floppy disk form.
- Operation Manual (Supplied with DVS-M1000C)
  This manual describes the overview, system configuration examples and specifications.
- Installation Manual (Supplied with DVS-M1000C)
  This manual describes the information when installing DVS-M1000C.

- Maintenance Manual Part2 Volume1
  (Block diagrams and Frame wirings)
- Maintenance Manual Part2 Volume2
  (Spare parts and Parts replacement)
- Maintenance Manual Part2 Volume3
  (Semiconductor pin assignments)
- Maintenance Manual Part2 Volume4
  (Board layouts)
- Maintenance Manual Part2 Volume5
  (Schematic diagrams 1 A to I)
- Maintenance Manual Part2 Volume6
  (Schematic diagrams 2 K to Z)
  These manuals describe the detailed service information.
  For obtaining the Maintenance Manual Part 2, please contact to your local Sony's sale/service office.

第1章　サービスインフォメーション
Section 1　Service Overview

1-1. DVS-M1000C

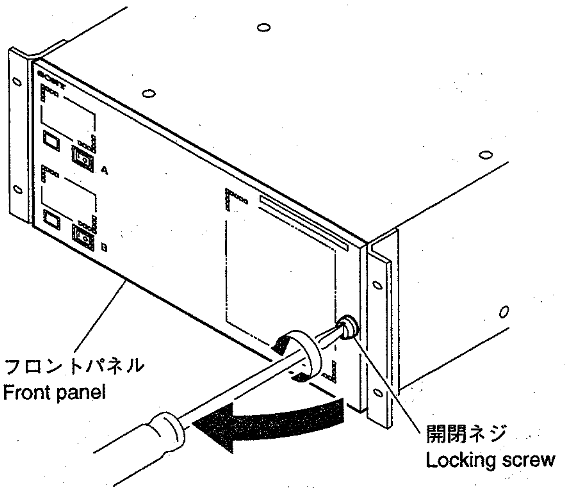
1-1. DVS-M1000C

1-1-1. フロントパネルの開閉

(1) マイナスドライバでフロントパネルの開閉ネジを緩める。
(2) 矢印方向にフロントパネルを開く。

1-1-1. Opening and Closing of Front Panel

(1) Loosen the locking screw on the front panel using a flatblade screwdriver.
(2) Open the front panel in the direction of the arrow.


フロントパネル
Front panel
開閉ネジ
Locking screw

(3) 手順 (1) , (2) の逆の手順でフロントパネルを閉じる。

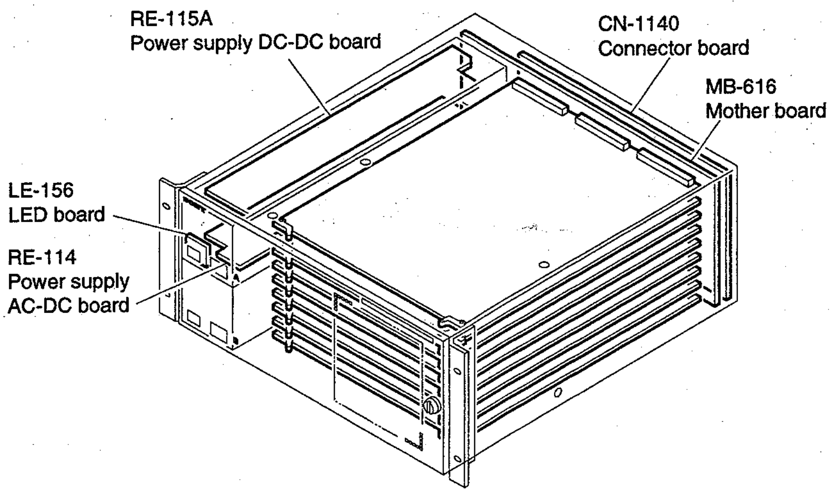
(3) Close the front panel in the reverse order of the steps (1) and (2) .

1-1-2. 基板配置図

1-1-2. Location of Mounted Circuit Boards

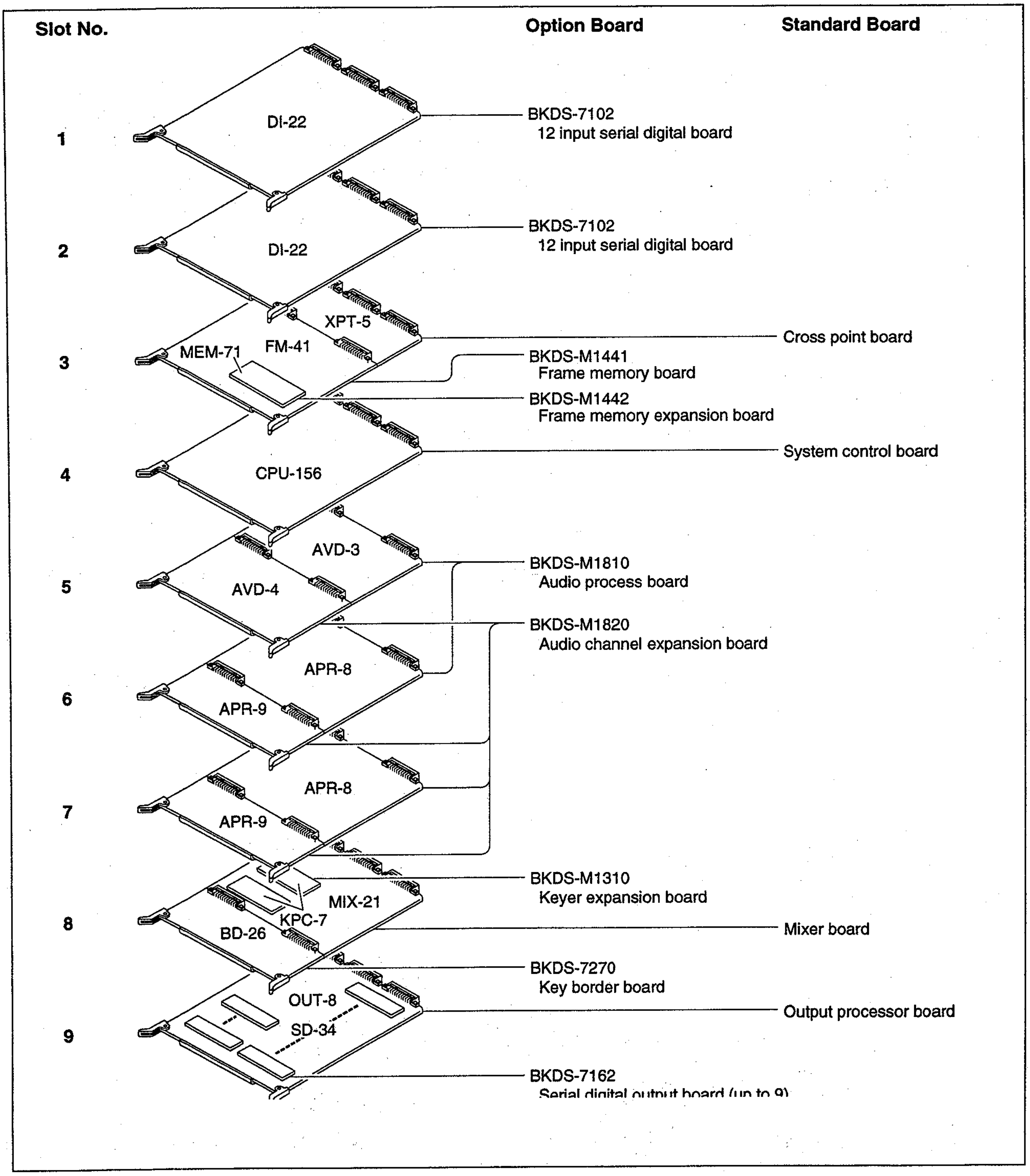
1. プラグイン基板以外

1. Except Plug-in Boards


RE-115A
Power supply DC-DC board
CN-1140
Connector board
MB-616
Mother board
LE-156
LED board
RE-114
Power supply
AC-DC board

2. プラグイン基板

2. Plug-in Boards


Slot No.
Option Board
Standard Board
1
DI-22
BKDS-7102
12 input serial digital board
2
DI-22
BKDS-7102
12 input serial digital board
3
XPT-5
MEM-71
FM-41
Cross point board
BKDS-M1441
Frame memory board
BKDS-M1442
Frame memory expansion board
4
CPU-156
System control board
5
AVD-3
AVD-4
BKDS-M1810
Audio process board
BKDS-M1820
Audio channel expansion board
6
APR-8
APR-9
7
APR-8
APR-9
8
MIX-21
KPC-7
BD-26
BKDS-M1310
Keyer expansion board
Mixer board
BKDS-7270
Key border board
9
OUT-8
SD-34
Output processor board
BKDS-7162
Serial digital output board (up to 9)

1-1-3. プラグイン基板の取り付け／取り外し

⚠注意

基板を取り付けるときや取り外すときは，必ず電源スイッチをOFFしてから行ってください。
電源を入れた状態で基板の取り付けや取り外しを行うと，基板が壊れたり感電する恐れがあります。

(1) フロントパネルを開く。(1-1-1項参照)
(2) ネジ5本を外し，基板押さえを取り外す。

取り外し方法

(3) プラグイン基板のイジェクトレバーを矢印①の方向に開く。
(4) 本機からプラグイン基板を引き出す。

注意

基板は，両端のイジェクトレバーに均等の力を加えながら引いてください。

取り付け方法

(5) 図のようにイジェクトレバーを開いた状態で，プラグイン基板を基板ガイドレールに差し込む。
(6) イジェクトレバーを矢印②の方向に閉じながら，プラグイン基板を押し込む。

1-1-3. Inserting/Pulling Out of Plug-in Boards

CAUTION

To avoid shock hazards and/or damage to the plug-in boards, be sure to turn off the power switch before inserting or pulling out the plug-in boards.

(1) Open the front panel. (Refer to the section 1-1-1.)
(2) Remove the five screws and the board retainer.

Removal

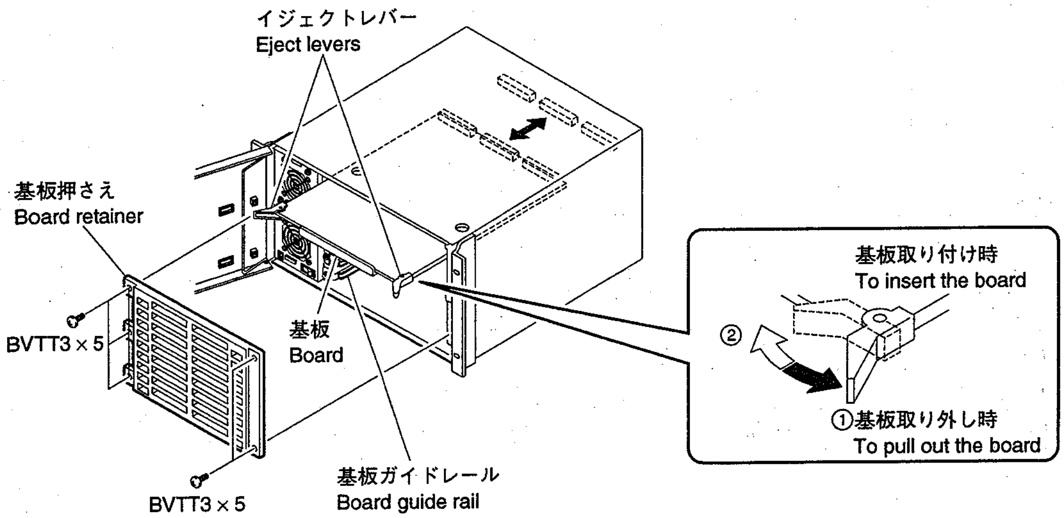
(3) Open the eject levers of the plug-in board in the direction of the arrow ①.
(4) Pull out the plug-in board from the unit.

Note

Pull out the plug-in board with an equal force for both eject levers.

Installation

(5) Insert the plug-in board along the board guide rails while putting the eject levers to ① position as shown in the figure.
(6) Connect the plug-in board to the connector on the mother board by putting the eject levers in the direction of the arrow ②.


イジェクトレバー
Eject levers
基板押さえ
Board retainer
BVTT3 × 5
基板
Board
BVTT3 × 5
基板ガイドレール
Board guide rail
基板取り付け時
To insert the board
②
①基板取り外し時
To pull out the board

1-1-4. データバックアップ用コンデンサについて

DVS-M1000Cには，セットアップデータおよびリアルタイムクロックを保持するために，大容量コンデンサ (3 Farad) がCPU-156基板に実装されています。
大容量コンデンサを充電するには，30分以上DVS-M1000Cの電源をONしておいてください。充電されている場合，常温で1週間程度データを保持することができます。

1-1-4. Capacitor for Data Backup

To store a setup data and a real-time clock, the large storage capacitor (3 Farad) is mounted on the CPU-156 board.
To charge the large storage capacitor sufficiently, turn on the power of DVS-M1000C for more than thirty minutes. The sufficiently charged large storage capacitor enables data to be stored for about one week in the normal temperature.

1-1-5. Spare Parts

マウント基板，主要部品等の交換を行う場合には，ここに掲載してある品名および部品番号を参照して，部品を入手してください。

1-1-5. Spare Parts

This section describes the information for spare parts. In case of ordering replaceable parts such as mounted circuit boards and major components, refer to the part numbers and descriptions that are listed in this section.

Spare Parts

Description	Part No.
Mounted Circuit Board, APR-8	A-8269-809-A
Mounted Circuit Board, APR-9	A-8273-000-A
Mounted Circuit Board, AVD-3	A-8269-808-A
Mounted Circuit Board, AVD-4	A-8272-998-A
Mounted Circuit Board, CN-1140	A-8269-802-A
Mounted Circuit Board, CPU-156	A-8275-709-B
Mounted Circuit Board, KPC-7	A-8269-812-A
Mounted Circuit Board, MB-616	A-8269-801-A
Mounted Circuit Board, MIX-21	A-8269-811-A
Mounted Circuit Board, OUT-8	A-8269-810-A
Mounted Circuit Board, RE-114	A-8269-813-A
Mounted Circuit Board, RE-115A	A-8269-814-A
Mounted Circuit Board, XPT-5	A-8275-708-A
DC Fan Motor	1-698-379-11
BKDS-7102, DI-22	Option
BKDS-7162, SD-34	Option
BKDS-7270, BD-26	Option
BKDS-M1441, FM-41	Option
BKDS-M1442, MEM-71	Option
BKDS-M1690, Redoundant Power Supply Unit	Option

1-2. BKDS-M1010

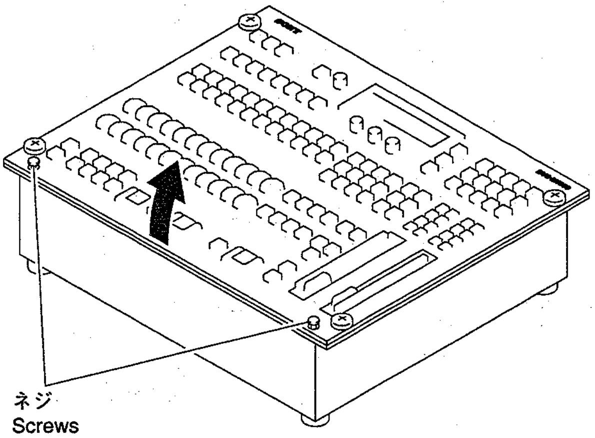
1-2-1. パネルの開閉

(1) ネジ２本を緩めて，パネルを矢印方向に開く。

1-2. BKDS-M1010

1-2-1. Opening and Closing of Panel

(1) Loosen the two screws and open the panel in the direction of the arrow.



(2) 図に示すようにサポート軸をサポートの切り欠き部に引っ掛けてパネルを固定する。

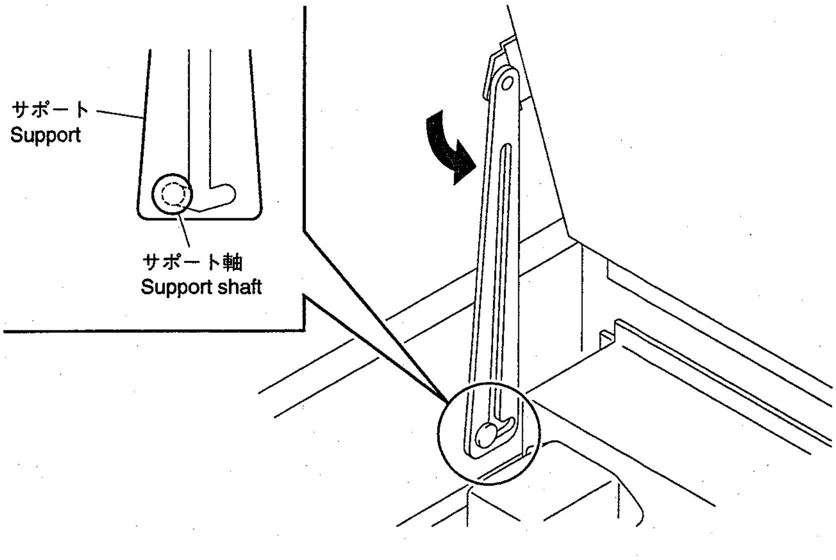
⚠注意

パネルを正しく固定しないと，不意にパネルが閉じ，手や指を挟む恐れがあります。また，固定後も，随時安全かどうか確認してください。

(2) Hook the support shaft onto the notch of the support as shown in the figure, and fix the panel.

CAUTION

Be sure to fix the panel properly, otherwise you will catch your hands or fingers in the sudden closing panel.

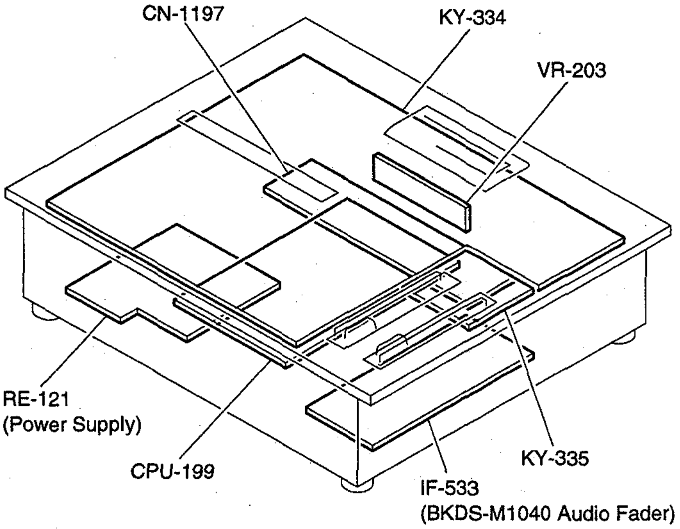


(3) 手順 (1)，(2) の逆の手順でパネルを閉じる。

(3) Close the panel in the reverse order of the steps (1) and (2).

1-2-2. 基板配置図

1-2-2. Location of Mounted Circuit Boards


CN-1197
KY-334
VR-203
RE-121
(Power Supply)
CPU-199
KY-335
IF-533
(BKDS-M1040 Audio Fader)

1-2-3. 基板の取り付け／取り外し

⚠注意

基板を取り付けるときや取り外すときは，必ず外部に設置されたブレーカをOFFするか電源コードを抜いてください。
電源を入れた状態で基板の取り付けや取り外しを行うと，基板が壊れたり感電する恐れがあります。

1. IF-533基板 (BKDS-M1040)

(1) パネルを開く。(1-2-1項参照)
(2) 内部の電源スイッチをOFFする。
(3) コネクタ2個 (CN21, CN24) を外す。
(4) ネジ6本を外し，IF-533基板を取り外す。

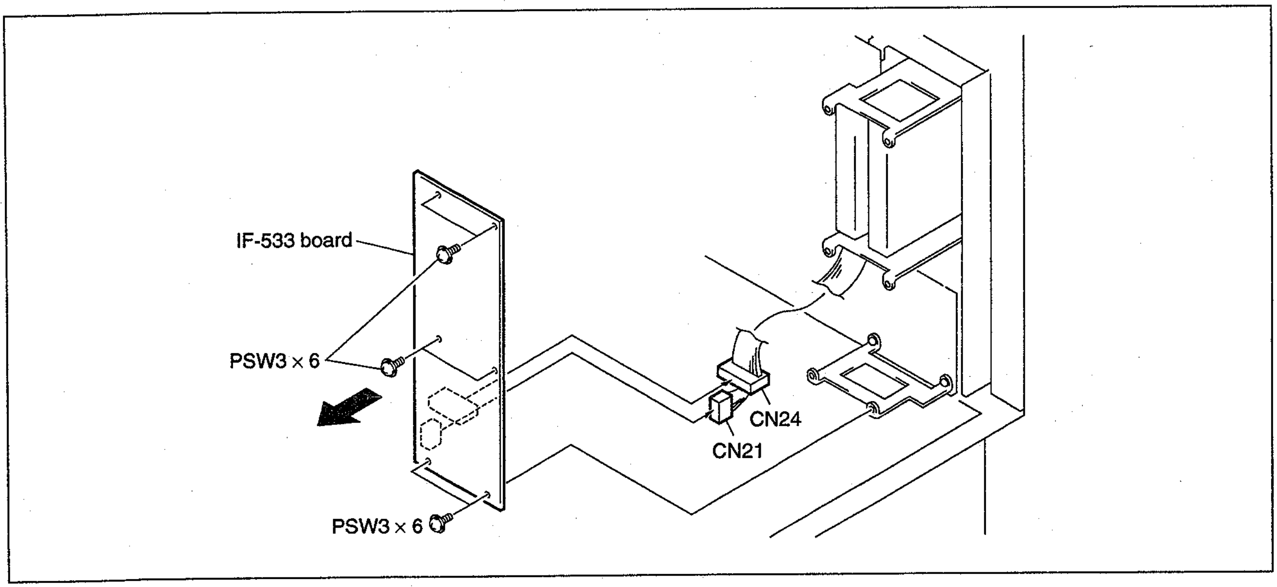
1-2-3. Installation and Removal of Boards

CAUTION

To avoid shock hazards and/or damage to the mounted circuit boards, be sure to turn off the breaker at the outside of BKDS-M1010 or unplug the power cord before installing and/or removing the mounted circuit boards.

1. IF-533 Board (BKDS-M1040)

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Disconnect the two connectors (CN21 and CN24) .
(4) Remove the six screws and the IF-533 board.



(5) 手順 (1) ～ (4) の逆の手順でIF-533基板を取り付ける。

(5) Install the IF-533 board in the reverse order of the steps (1) through (4) .

2. CPU-199 基板

(1) パネルを開く。（1-2-1 項参照）
(2) 内部の電源スイッチを OFF する。
(3) IF-533 基板を取り外す。（「1. IF-533 基板」参照）

注意

オーディオフェーダー BKDS-M1040 を使用していない場合は，手順 (3) は不要です。

(4) コネクタ 6 個 (CN71～CN73, CN75～CN77) を外す。
(5) ネジ 6 本を外し，CPU-199 基板を取り外す。

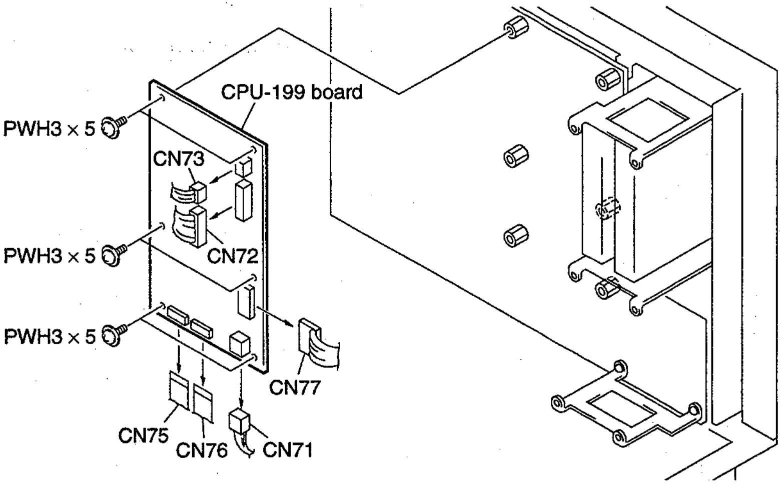
2. CPU-199 Board

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Remove the IF-533 board. (Refer to "1. IF-533 Board" in this section.)

Note

It is not necessary to carry out the step (3) when Audio Fader BKDS-M1040 is not installed.

(4) Disconnect the six connectors (CN71 through CN73, and CN75 through CN77) .
(5) Remove the six screws and the CPU-199 board.



(6) 手順 (1) ～ (5) の逆の手順で CPU-199 基板を取り付ける。

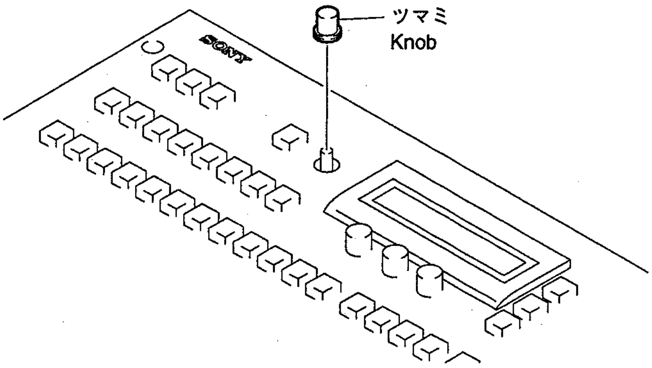
(6) Install the CPU-199 board in the reverse order of the steps (1) through (5) .

3. KY-334 基板

(1) 図に示すツマミ 1 個を取り外す。

3. KY-334 Board

(1) Remove a knob shown in the figure.



(2) パネルを開く。(1-2-1 項参照)
(3) 内部の電源スイッチを OFF する。
(4) IF-533 基板を取り外す。(「1. IF-533 基板」参照)

注意

オーディオフェーダー BKDS-M1040 を使用していない場合は，手順 (4) は不要です。

(5) CPU-199 基板を取り外す。(「2. CPU-199 基板」参照)
(6) コネクタ 5 個 (B 面：CN1, CN8, CN9, CN13, CN14) を外す。
(7) 六角支柱 6 本を外す。
(8) ネジ 16 本を外す。

注意

オーディオフェーダー BKDS-M1040 を使用していない場合は，図に示すフェーダー基板取付板 (3) は取り付けられていません。

(9) コネクタ 3 個 (A 面：CN10〜CN12) を外し，KY-334 基板を取り外す。

(2) Open the panel. (Refer to the section 1-2-1.)
(3) Turn off the power switch in BKDS-M1010.
(4) Remove the IF-533 board. (Refer to "1. IF-533 Board" in this section.)

Note

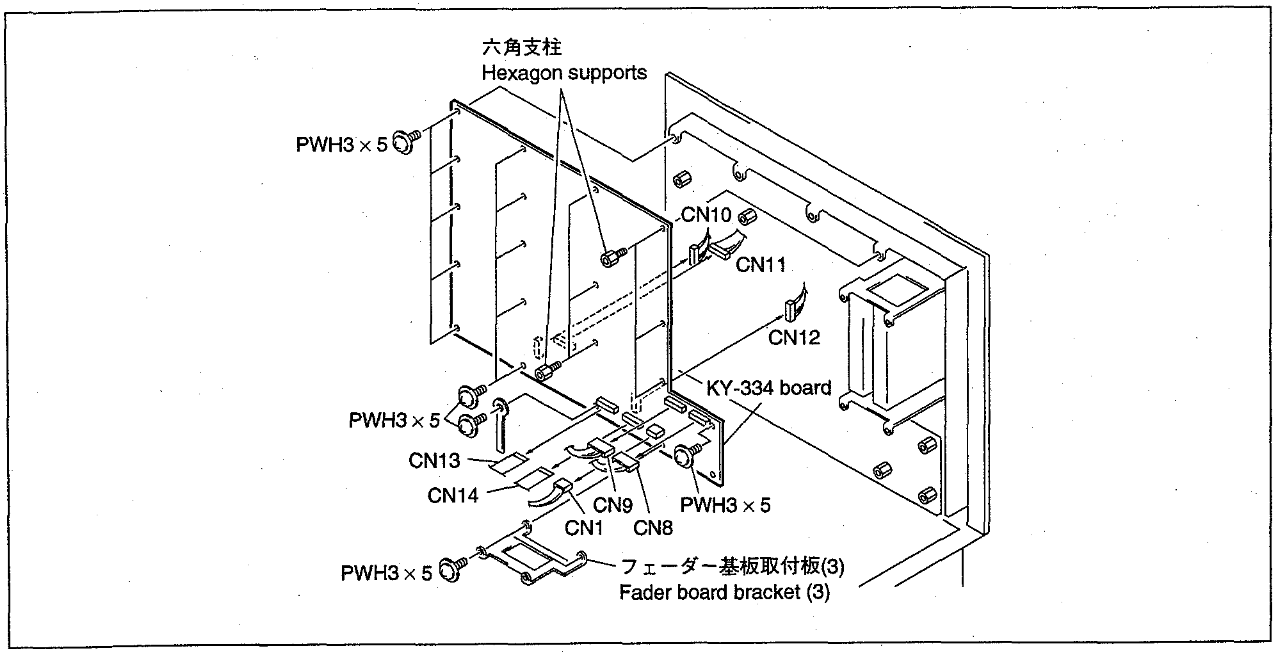
It is not necessary to carry out the step (4) when Audio Fader BKDS-M1040 is not installed.

(5) Remove the CPU-199 board. (Refer to "2. CPU-199 Board" in this section.)
(6) Disconnect the five connectors (B side : CN1, CN8, CN9, CN13 and CN14) .
(7) Remove the six hexagon supports.
(8) Remove the sixteen screws.

Note

When Audio Fader BKDS-M1040 is not installed, the fader board bracket (3) shown in the figure is not installed.

(9) Disconnect the three connectors (A side : CN10 through CN12) and the KY-334 board.


六角支柱
Hexagon supports
PWH3 × 5
CN10
CN11
CN12
KY-334 board
PWH3 × 5
CN13
CN14
CN9
CN1
CN8
PWH3 × 5
PWH3 × 5
フェーダー基板取付板(3)
Fader board bracket (3)

(10) 手順 (1) 〜 (9) の逆の手順で KY-334 基板を取り付ける。

(10) Install the KY-334 board in the reverse order of the steps (1) through (9) .

4. VR-203 基板

VR-203 基板の取り付け／取り外し方法については，「2-2-1. ロータリーエンコーダの交換」を参照してください。

5. KY-335 基板

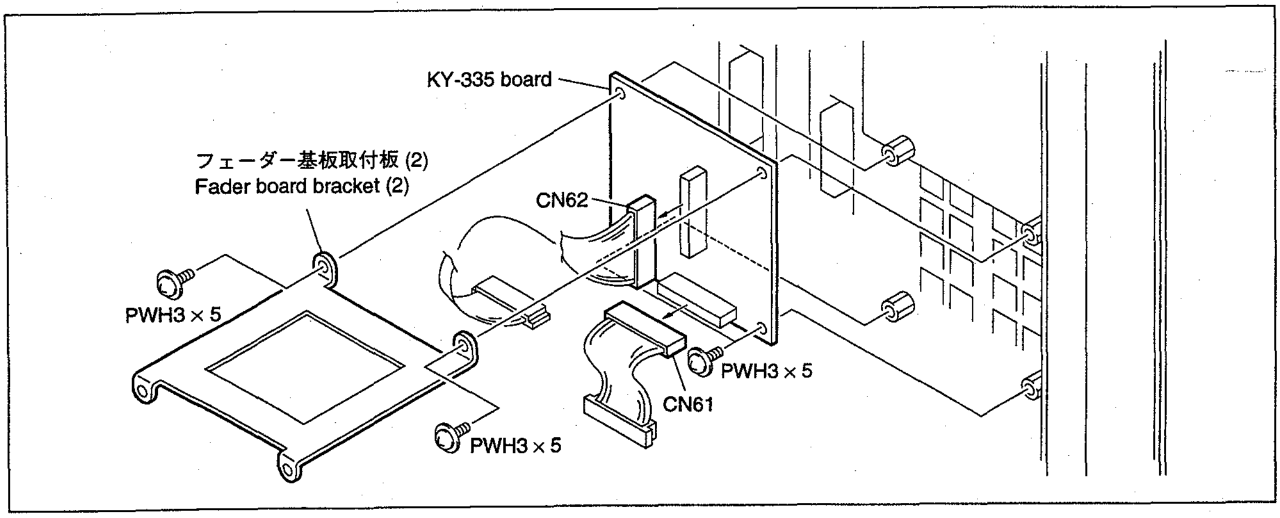
(1) パネルを開く。（1-2-1 項参照）
(2) 内部の電源スイッチを OFF する。
(3) IF-533 基板を取り外す。（「1. IF-533 基板」参照）
(4) コネクタ 2 個 (CN61, CN62) を外す。
(5) ネジ 4 本を外し，フェーダー基板取付板 (2) と KY-335 基板を取り外す。

4. VR-203 Board

For the installation and removal of the VR-203 board, refer to “Section 2-2-1. Replacement of Rotary Encoder”.

5. KY-335 Board

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Remove the IF-533 board. (Refer to “1. IF-533 Board” in this section.)
(4) Disconnect the two connectors (CN61 and CN62) .
(5) Remove the four screws, the fader board bracket (2) and the KY-335 board.



(6) 手順 (1) ～ (5) の逆の手順で KY-335 基板を取り付ける。

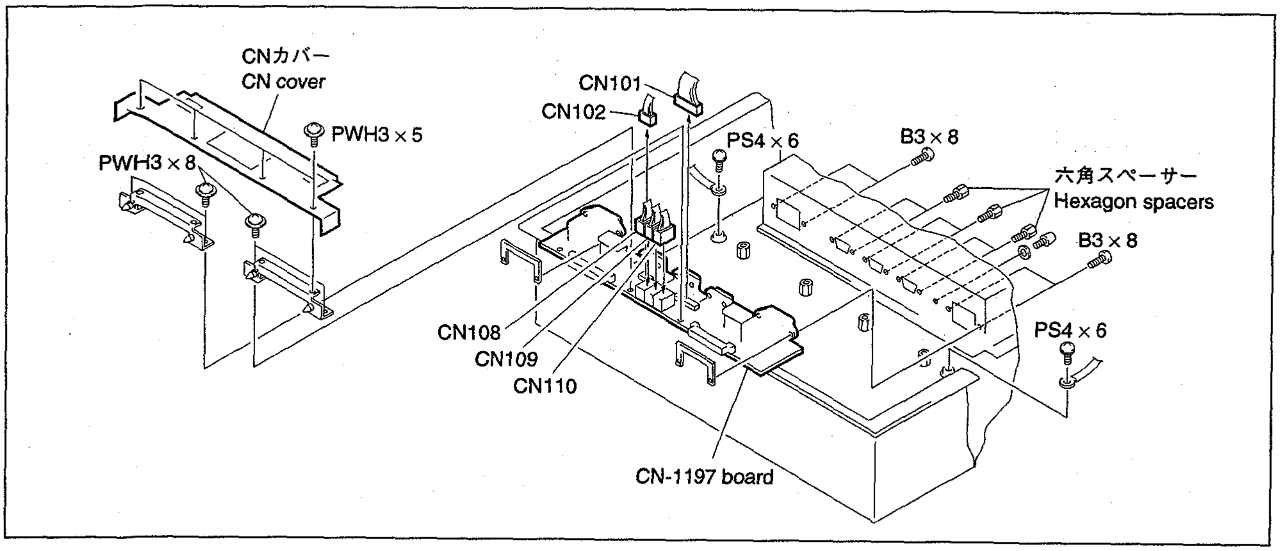
(6) Install the KY-335 board in the reverse order of the steps (1) through (5) .

6. CN-1197基板

(1) リアパネル上のネジ10本を外す。
(2) パネルを開く。(1-2-1項参照)
(3) 内部の電源スイッチをOFFする。
(4) アース線を止めているネジ2本を外す。
(5) コネクタ5個 (CN101, CN102, CN108, CN109, CN110) を外す。
(6) ネジ4本を外し，CNカバーを取り外す。
(7) ネジ4本を外し，CN-1197基板を取り外す。

6. CN-1197 Board

(1) Remove the ten screws on the rear panel.
(2) Open the panel. (Refer to the section 1-2-1.)
(3) Turn off the power switch in BKDS-M1010.
(4) Remove the two screws securing the ground wires.
(5) Disconnect the five connectors (CN101, CN102, CN108, CN109 and CN110) .
(6) Remove the four screws and the CN cover.
(7) Remove the four screws and the CN-1197 board.


CNカバー
CN cover
PWH3 x 5
PWH3 x 8
CN101
CN102
PS4 x 6
B3 x 8
六角スペーサー
Hexagon spacers
B3 x 8
PS4 x 6
CN108
CN109
CN110
CN-1197 board

(8) 手順 (1) ～ (7) の逆の手順でKY-335基板を取り付ける。

(8) Install the CN-1197 board in the reverse order of the steps (1) through (7) .

1-2-4. Spare Parts

マウント基板，主要部品等の交換を行う場合には，ここに掲載してある品名および部品番号を参照して，部品を入手してください。

1-2-4. Spare Parts

This section describes the information for spare parts. In case of ordering replaceable parts such as mounted circuit boards and major components, refer to the part numbers and descriptions that are listed in this section.

Spare Parts

Description	Part No.
Mounted Circuit Board, CN-1197	A-8269-568-A
Mounted Circuit Board, CPU-199	A-8269-566-A
Mounted Circuit Board, IF-533	A-8269-571-A
Mounted Circuit Board, KY-334	A-8269-559-A
Mounted Circuit Board, KY-335	A-8269-563-A
Printed Circuit Board, VR-203	1-658-379-11
LCD Display Unit	1-467-667-11
Rotary Encoder	1-467-377-11
Fader Unit	1-467-376-12
BKDS-M1090, Redundant Power Supply Unit	Option

第2章　主要部品の交換

Section 2　Replacement of Main Parts

⚠警告

主要部品を交換するときは，必ず電源スイッチをOFFしてから，外部に設置されたブレーカをOFFするか電源コードを抜いてください。
電源を入れた状態で部品の交換を行うと，基板が壊れたり感電する恐れがあります。

2-1.　DVS-M1000C

2-1-1.　リアパネルのファンの交換

通常使用時にファンが停止すると，コントロールパネルBKDS-M1010のディスプレイ上にアラーム表示が現われます。その際には，ファンを交換してください。
また，ファンは長時間使用すると摩耗により回転速度が低下します。連続して使用した場合，約2年で定期的に交換してください。

注意

電源ユニット部のファンの交換については，ソニーのサービス担当者にご相談ください。

(1) 交換するファンを固定しているネジ4本を外す。
(2) コネクタ1個（上側のファンの場合：CN10，下側のファンの場合：CN11）を外し，ファンを取り外す。

WARNING

To avoid shock hazards and/or damage to the mounted circuit boards, be sure to turn off the power switch, and then turn off the breaker at the outside of DVS-M1000C and BKDS-M1010, or unplug the power cord before replacing the main parts.

2-1.　DVS-M1000C

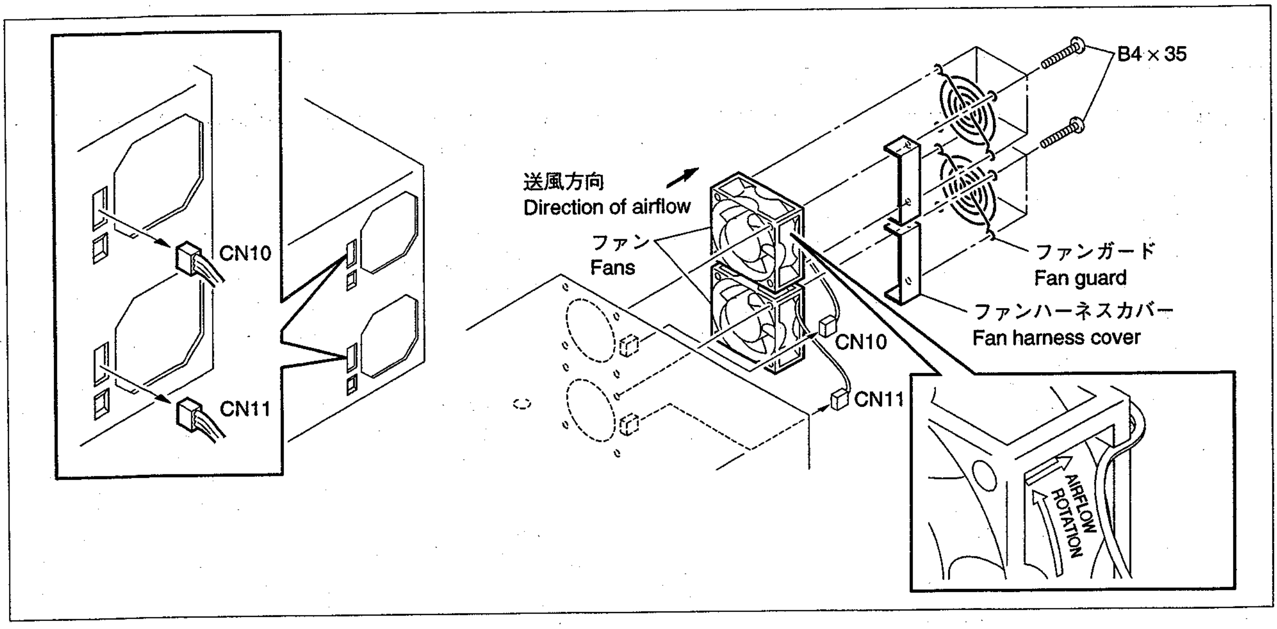
2-1-1.　Replacement of Fan on the Rear Panel

If the fan stops under the normal conditions, the control panel BKDS-M1010 indicates the alarm on the display. If indicated, replace the fan.
And then if the fan is used over a prolonged period, the rotation speed getting low by wearing. If the unit is continuously used, periodically replace it about every two years.

Note

For the replacement of the fan in the power unit, please contact to your Sony's sales/service office.

(1) Remove the four screws securing the fan to replace.
(2) Disconnect the one connector (Upper fan : CN10/Lower fan : CN11) and remove the fan.



(3) 手順（1），(2）の逆の手順でファンを取り付ける。

注意

ファンを取り付けるときは，送風方向に注意して取り付けてください。

(3) Install a new fan in the reverse order of the steps (1) and (2) .

Note

When installing the fan, take care the direction of airflow.

2-1-2. 電源ユニットの交換

⚠警告

電源ユニットの取り外しは，電源を切った後，5分以上経過するのを待ってから行ってください。
電源を切った後すぐに電源ユニットの取り外しを行うと，感電する恐れがあります。

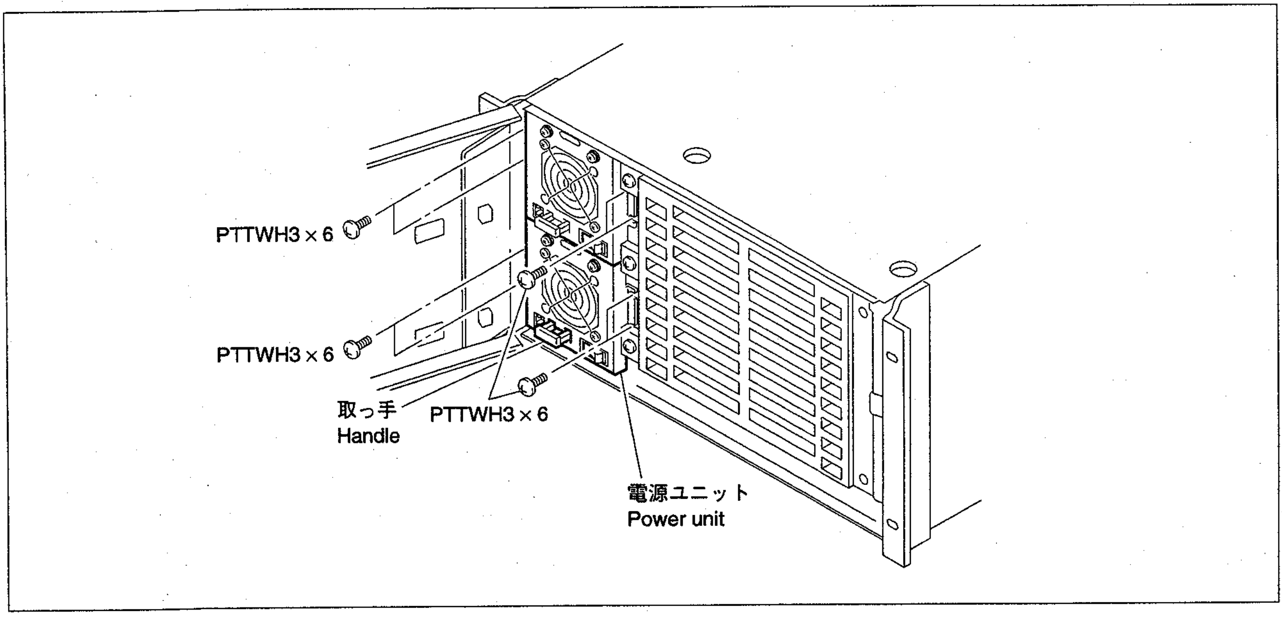
(1) フロントパネルを開く。(1-1-1項参照)
(2) 電源ユニットを固定しているネジ4本を外す。
(3) 取っ手を持って電源ユニットを手前に引き出す。

2-1-2. Replacement of Power Unit

WARNING

Allow for more than five minutes interval after turning the power off, remove the power unit.
To avoid shock hazards, never remove the power unit just after turning the power off.

(1) Open the front panel. (Refer to the section 1-1-1.)
(2) Remove the four screws securing the power unit.
(3) Hold the handle and pull out the power unit from the unit.



(4) 手順 (1)，(2)，(3) の逆の手順で電源ユニットを取り付ける。

(4) Install a new power unit in the reverse order of the steps (1) through (3) .

2-2. BKDS-M1010

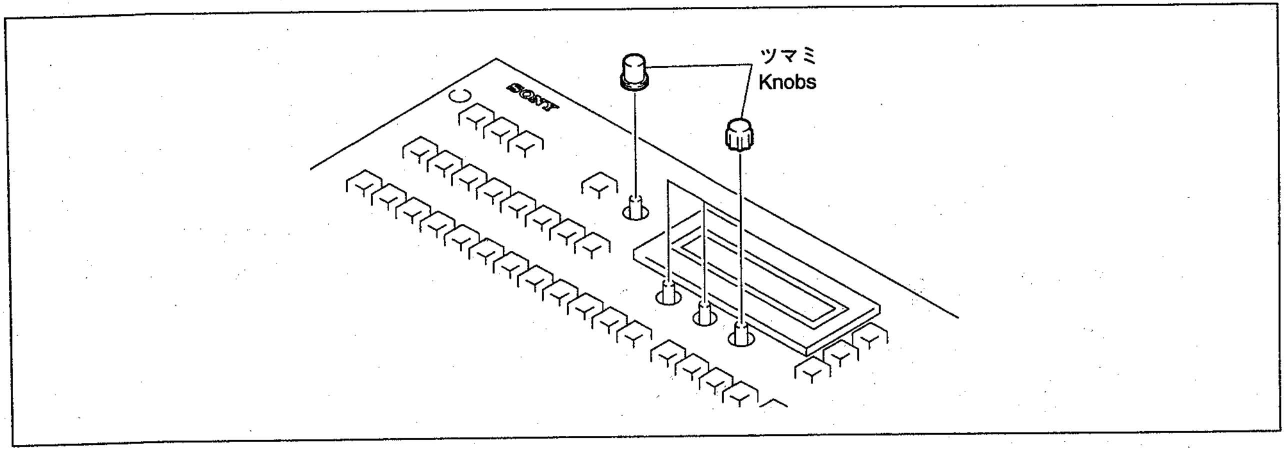
2-2-1. ロータリーエンコーダの交換

(1) ツマミ4個を取り外す。

2-2. BKDS-M1010

2-2-1. Replacement of Rotary Encoder

(1) Remove the four knobs.



(2) パネルを開く。(1-2-1項参照)
(3) 内部の電源スイッチをOFFする。
(4) IF-533基板を取り外す。(1-2-3項「1. IF-533基板」参照)

注意

オーディオフェーダーBKDS-M1040を使用していない場合は，手順 (4) は不要です。

(5) CPU-199基板を取り外す。(1-2-3項「2. CPU-199基板」参照)
(6) KY-334基板を取り外す。(1-2-3項「3. KY-334基板」参照)

(続く)

(2) Open the panel. (Refer to the section 1-2-1.)
(3) Turn off the power switch in BKDS-M1010.
(4) Remove the IF-533 board. (Refer to "1. IF-533 Board" in the section 1-2-3.)

Note

It is not necessary to carry out the step (4) when Audio Fader BKDS-M1040 is not installed.

(5) Remove the CPU-199 board. (Refer to "2. CPU-199 Board" in the section 1-2-3.)
(6) Remove the KY-334 board. (Refer to "3. KY-334 Board" in the section 1-2-3.)

(To be continued)

(7) ナット2個を外し，VR-203基板をつけたままエンコーダ取付板を取り外す。

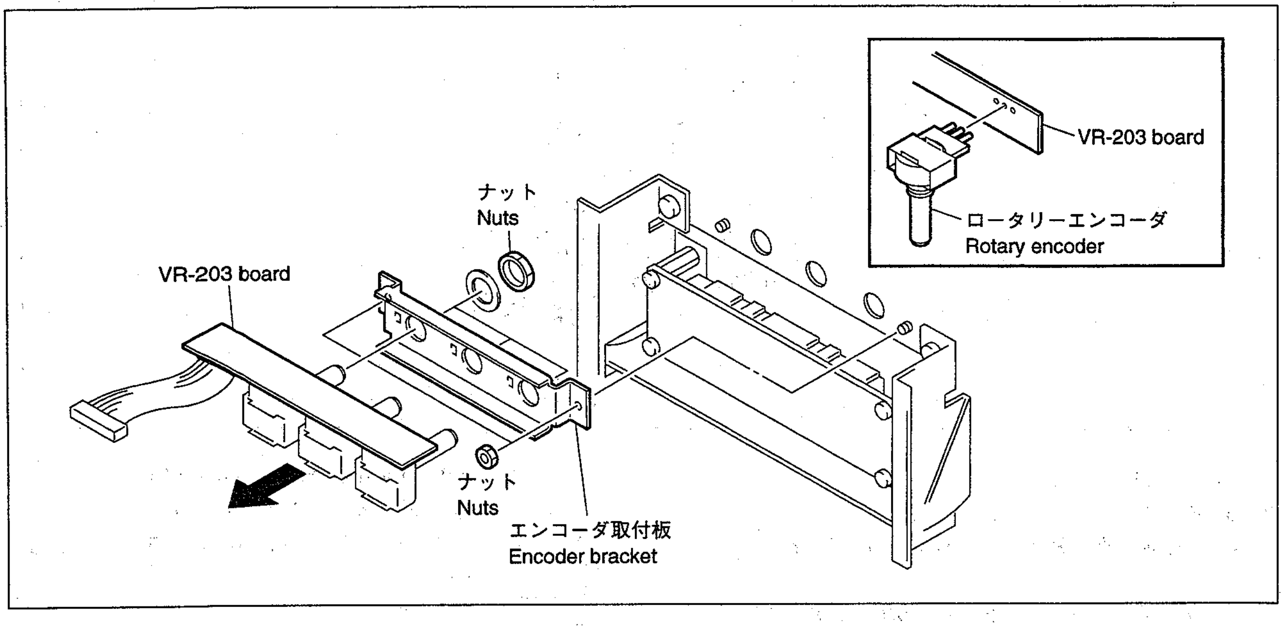
(8) ナット3個を外し，エンコーダ取付板からVR-203基板を取り外す。

(9) 交換するロータリーエンコーダのはんだ付けを外す。

(7) Remove the two nuts and the encoder bracket installing with the VR-203 board.

(8) Remove the three nuts and the VR-203 board from the encoder bracket.

(9) Desolder the rotary encoder to replace.


VR-203 board
ロータリーエンコーダ
Rotary encoder
ナット
Nuts
VR-203 board
ナット
Nuts
エンコーダ取付板
Encoder bracket

(10) 手順 (1) ～ (9) の逆の手順でロータリーエンコーダを取り付ける。

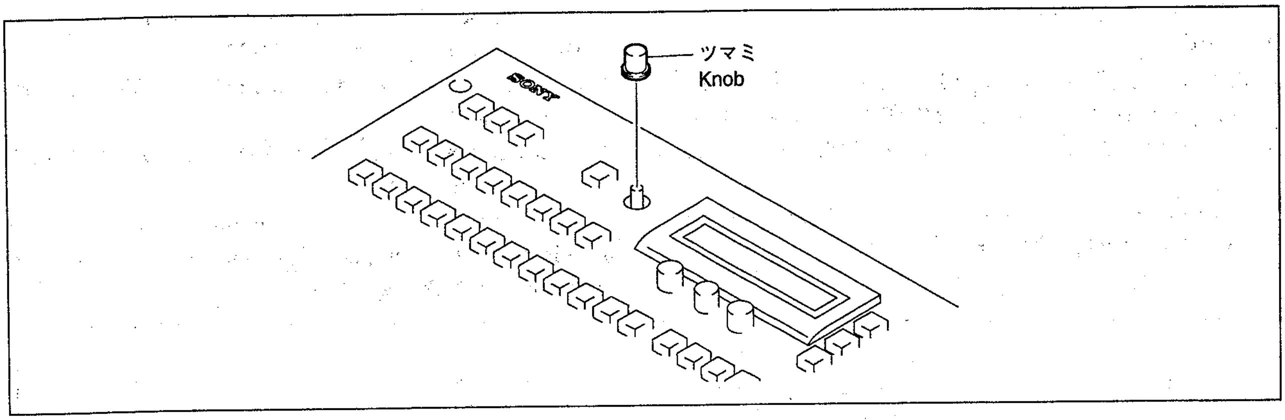
(10) Install a new rotary encoder in the reverse order of the steps (1) through (9) .

2-2-2. LCDディスプレイユニットの交換

(1) 図に示すツマミ1個を取り外す。

2-2-2. Replacement of LCD Display Unit

(1) Remove the one knob shown in the figure.



(2) パネルを開く。(1-2-1項参照)

(3) 内部の電源スイッチをOFFする。

(4) IF-533基板を取り外す。(1-2-3項「1. IF-533基板」参照)

注意

オーディオフェーダーBKDS-M1040を使用していない場合は，手順 (4) は不要です。

(5) CPU-199基板を取り外す。(1-2-3項「2. CPU-199基板」参照)

(6) KY-334基板を取り外す。(1-2-3項「3. KY-334基板」参照)

(7) 図に示すコネクタ1個を外す。

(8) ネジ4本を外し，LCDディスプレイユニットを取り外す。

(2) Open the panel. (Refer to the section 1-2-1.)

(3) Turn off the power switch in BKDS-M1010.

(4) Remove the IF-533 board. (Refer to “1. IF-533 Board” in the section 1-2-3.)

Note

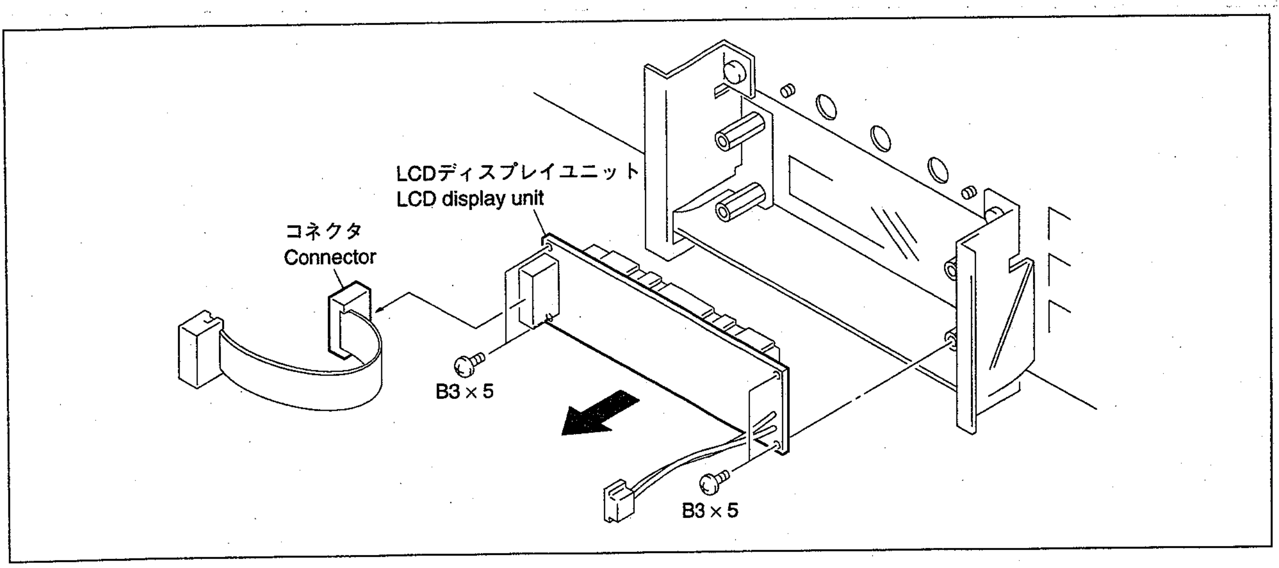
It is not necessary to carry out the step (4) when Audio Fader BKDS-M1040 is not installed.

(5) Remove the CPU-199 board. (Refer to “2. CPU-199 Board” in the section 1-2-3.)

(6) Remove the KY-334 board. (Refer to “3. KY-334 board” in the section 1-2-3.)

(7) Disconnect the one connector shown in the figure.

(8) Remove the four screws and the LCD display unit.



(9) 手順 (1) ～ (8) の逆の手順でLCDディスプレイユニットを取り付ける。

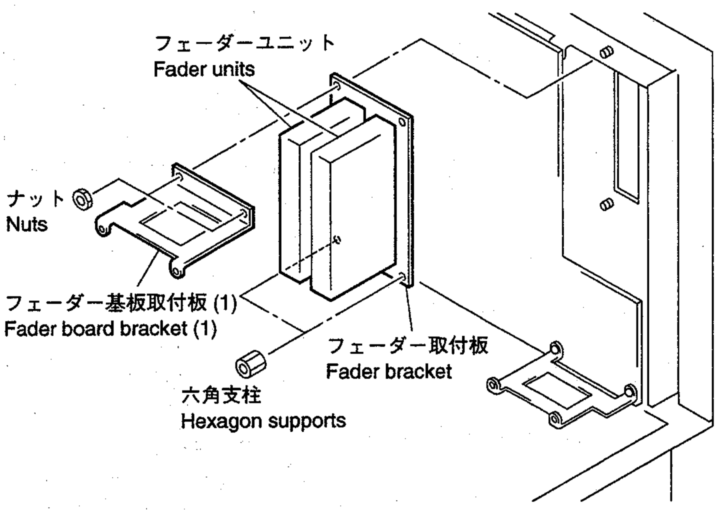
(9) Install a new LCD display unit in the reverse order of the steps (1) through (8) .

2-2-3. フェーダーユニットの交換 (BKDS-M1040)

(1) パネルを開く。(1-2-1項参照)
(2) 内部の電源スイッチをOFFする。
(3) IF-533基板を取り外す。(1-2-3項「1. IF-533基板」参照)
(4) KY-335基板を取り外す。(1-2-3項「5. KY-335基板」参照)
(5) ナット2個を外し，フェーダー基板取付板 (1) を取り外す。
(6) 六角支柱2本を外し，フェーダーユニットをつけたままフェーダー取付板を取り外す。

2-2-3. Replacement of Fader Unit (BKDS-M1040)

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Remove the IF-533 board. (Refer to “1. IF-533 Board” in the section 1-2-3.)
(4) Remove the KY-335 board. (Refer to “5. KY-335 Board” in the section 1-2-3.)
(5) Remove the two nuts and the fader board bracket (1) .
(6) Remove the two hexagon supports and the fader bracket installing with the fader units.


フェーダーユニット
Fader units
ナット
Nuts
フェーダー基板取付板 (1)
Fader board bracket (1)
フェーダー取付板
Fader bracket
六角支柱
Hexagon supports

(7) **左側（AUDIO MIX 1側）のフェーダーユニットを交換する場合：**

① ネジ2本を外し，フェーダーガードを取り外す。
② フェーダーツマミ1個を取り外す。
③ ネジ2本を外し，フェーダーユニットを取り外す。

右側（AUDIO MIX 2側）のフェーダーユニットを交換する場合：

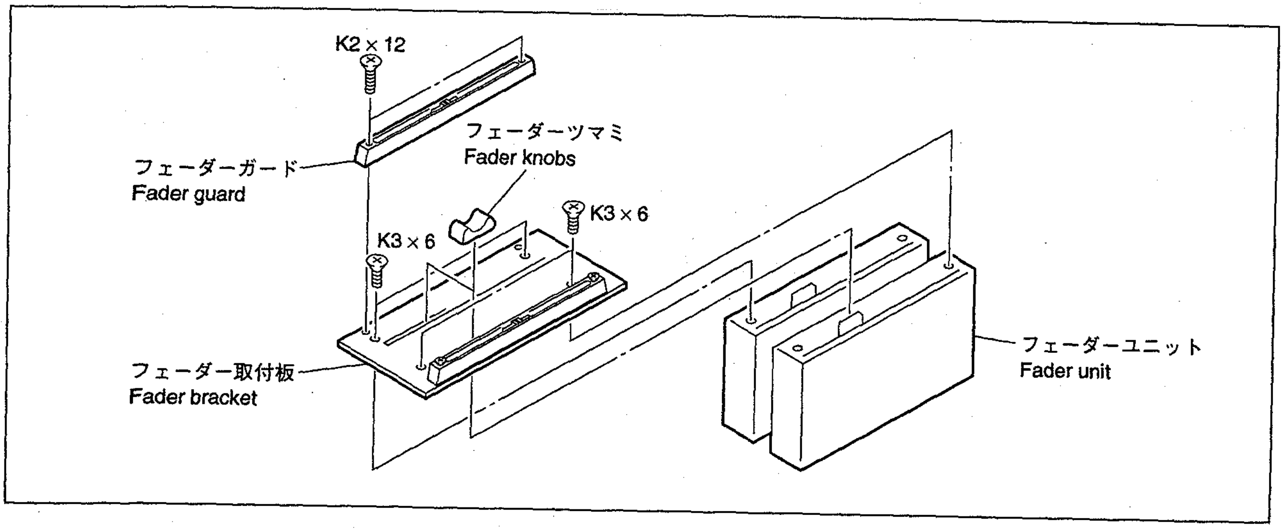
① フェーダーツマミ1個を取り外す。
② ネジ2本を外し，フェーダーユニットを取り外す。

(7) **For replacement of fader unit at the left side (AUDIO MIX 1 side):**

①Remove the two screws and the fader guard.
②Remove the one fader knob.
③Remove the two screws and the fader unit.

For replacement of fader unit at the right side (AUDIO MIX 2 side):

①Remove the one fader knob.
②Remove the two screws and the fader unit.


K2 × 12
フェーダーツマミ
Fader knobs
フェーダーガード
Fader guard
K3 × 6
K3 × 6
フェーダーユニット
Fader unit
フェーダー取付板
Fader bracket

(8) 手順 (1) ～ (7) の逆の手順でフェーダーユニットを取り付ける。

(9) フェーダーユニットを交換後，オーディオフェーダーの動作範囲を調整する。(3-2-4項「8. Fader Test」参照)

(8) Install a new fader unit in the reverse order of the steps (1) through (7).

(9) After replacing the fader unit, adjust the operation range of the audio fader. (Refer to “8. Fader Test” in the section 3-2-4.)

2-2-4. 電源ユニットの交換

⚠警告

電源ユニットの取り外しは，電源を切った後，5分以上経過するのを待ってから行ってください。
電源を切った後すぐに電源ユニットの取り外しを行うと，感電する恐れがあります。

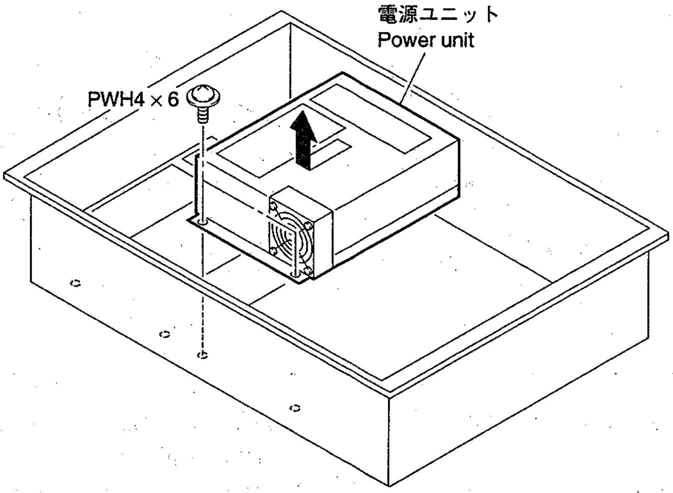
(1) パネルを開く。（1-2-1 項参照）
(2) 内部の電源スイッチを OFF する。
(3) 電源ユニットを固定しているネジ 2 本を外す。
(4) 電源ユニットを手前に引いてから持ち上げる。

2-2-4. Replacement of Power Unit

WARNING

Allow for more than five minutes interval after turning the power off, remove the power unit.
To avoid shock hazards, never remove the power unit just after turning the power off.

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Remove the two screws securing the power unit.
(4) Pull the power unit toward you and lift up it.



(5) 手順 (1) ～ (4) の逆の手順で電源ユニットを取り付ける。

(5) Install a new power unit in the reverse order of the steps (1) through (4) .

第3章 トラブルシューティング (BKDS-M1010)
Section 3 Trouble Shooting (BKDS-M1010)

3-1. BKDS-M1010の自己診断モード

BKDS-M1010の自己診断モードには，下記の8項目のメニューがあり，それらのメニューで故障診断を行うことができます。

(1) 「1. SW scan test」メニュー
BKDS-M1010のスイッチの読み込みが正常に行われていることを，確認することができます。
同時に，ボタンの点灯の確認ができます。

(2) 「2. Brightness test」メニュー
各ボタンの明るさのバラツキを，確認することができます。

(3) 「3. Display test」メニュー
LCDディスプレイと英数文字表示器が正しくアルファベットを表示することを，確認することができます。

(4) 「4. Volume 1 test」メニュー
LCDディスプレイ下の三つのボリュームが正しく動作することを，確認することができます。

(5) 「5. Volume 2 test」メニュー
LCDディスプレイ左側の「LEVEL」ボリュームが正しく動作することを，確認することがきます。

(6) 「6. Buzzer test」メニュー
ブザーが鳴ることを確認することができます。

(7) 「7. Serial port test」メニュー
リアパネル上のシリアルインターフェースが正常に動作することを，確認することができます。

(8) 「8. Fader test」メニュー
BKDS-M1040を装着した場合に，オーディオフェーダが正常に動作することを確認し，その動作範囲を規定するボリュームの調整を行うことができます。

3-1. Self Diagnostics Mode of BKDS-M1010

The self diagnostics mode of BKDS-M1010 has the following eight menu items. Run the tests in each menu.

(1) "1. SW scan test" Menu
Checks that BKDS-M1010 switch data is correctly read. The test checks that the buttons are illuminated correctly.

(2) "2. Brightness test" Menu
Checks variations in button brightness.

(3) "3. Display test" Menu
Checks that alphanumeric characters are correctly displayed on the LCD display and on the alphanumeric indicator.

(4) "4. Volume 1 test" Menu
Checks that the three volume controls under the LCD display function correctly.

(5) "5. Volume 2 test" Menu
Checks that the "LEVEL" volume control on the left of the LCD display functions correctly.

(6) "6. Buzzer test" Menu
Checks that the buzzer sounds.

(7) "7. Serial port test" Menu
Checks that the serial interface on the rear panel functions correctly.

(8) "8. Fader test" Menu
Checks that the audio fader functions correctly if the BKDS-M1040 is installed. The volume control which sets the limit of fader operation can also be adjusted in this menu.

3-2. トラブルシューティング

3-2-1. トラブルシューティングに必要な治具

「Serial port test」メニューでは，次の治具が必要です。

(1) 「SWITCHER」／「REMOTE」コネクタ用テスト治具

D-SUB 9ピンオスコネクタのピン2とピン8間，およびピン3とピン7間を配線したもの。(他のピンは開放)

3-2. Trouble Shooting

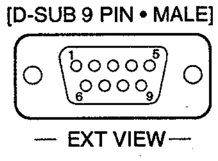
3-2-1. Tools Required for Troubleshooting

The following tools are required in the "Serial port test" menu.

(1) Test tool for the "SWITCHER" / "REMOTE" connector

The pins-2 and -8 of the D-SUB 9-pin male connectors are shorted and the pins-3 and -7 of them are shorted. (Other pins are left open.)

Pin No.	Signal name
1	FG
2	RX-A
3	TX-B
4	SG
5	VD-B
6	SG
7	RX-B
8	TX-A
9	VD-A



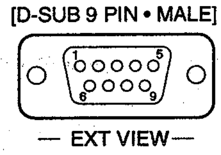
(2) 「TERMINAL」コネクタ用テスト治具

D-SUB 9ピンオスコネクタのピン2とピン3間を配線したもの。(他のピンは開放)

(2) Test tool for the "TERMINAL" connector

The pins-2 and -3 of the D-SUB 9-pin male connectors are shorted. (Other pins are left open.)

Pin No.	Signal name
1	DCD
2	RXD
3	TXD
4	DTR
5	SG
6	DSR
7	RTS
8	CTS
9	RI

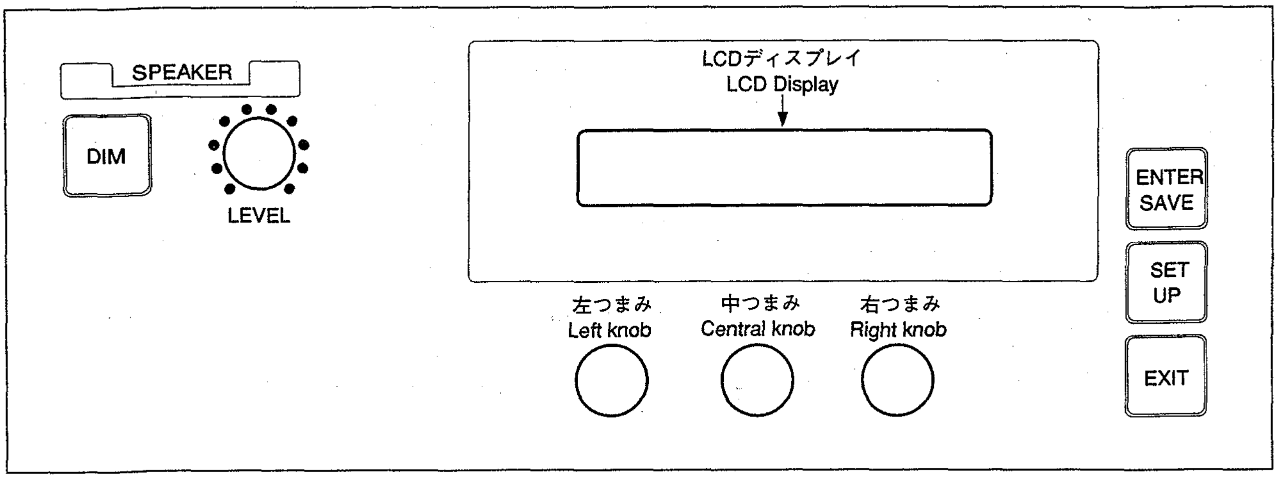


3-2-2. 自己診断モードで使用するつまみとボタンの位置

この章に記述されるLCDディスプレイ回りのつまみおよびボタン類は，下記のように配置されています。

3-2-2. Knobs and Buttons Used in the Self Diagnostics Mode

The knobs and buttons which are referred to in this section are arranged around the LCD display as shown below.

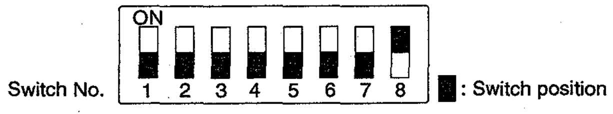

SPEAKER
DIM
LEVEL
LCDディスプレイ
LCD Display
ENTER SAVE
SET UP
EXIT
左つまみ
Left knob
中つまみ
Central knob
右つまみ
Right knob

3-2-3. 自己診断モードの起動

(1) パネルを開く。(1-2-1. 項参照)
(2) 内部の電源スイッチをOFFにする。
(3) CPU-199基板上のディップスイッチ (S3) のスイッチ8をONにし，他のスイッチはすべてOFFにする。

3-2-3. Starting Up the Self Diagnostics Mode

(1) Open the panel. (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Set switch 8 of the DIP switch (S3) on the CPU-199 board to the "ON" position. Set all other switches of S3 to OFF.


ON
Switch No.
1
2
3
4
5
6
7
8
■ : Switch position

Dip Switch (S3)

(4) 内部の電源スイッチをONにする。
(5) パネルを閉じる。(1-2-1. 項参照)
(6) 「SET UP」ボタンを押す。LCDディスプレイ上に“DIAG MENU”が表示され，自己診断モードが起動する。
(7) 左つまみを回し，テストしたいメニューを選択する。

(4) Turn on the power switch in BKDS-M1010.
(5) Close the panel. (Refer to the section 1-2-1.)
(6) Press the "SET UP" button. "DIAG MENU" appears on the LCD display and the self diagnostics mode starts.
(7) Turn the left knob to select the desired test item.

3-2-4. テストの手順

3-2-3. 項により自己診断モードを起動したあと，メニューごとに次の手順でテストを行います。

3-2-4. Test Procedures

After starting up the self diagnostics mode in the section 3-2-3, run the test of each menu as follows.

1. SW scan test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

1. SW scan test

(1) Press the "SET UP" button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
1. Sw Scan Test
```

(3) [ENTER SAVE] ボタンを押す。「SW scan test」がスタートし，メニューは下記の表示に変わる。

(3) Press the "ENTER SAVE" button to start the "SW scan test". The menu changes to the following display.

```
*** Sw Scan Test ***
DIP-SW = 1000 0000
```

(4) コントロールパネル上の各ボタンを押し，そのボタンが点灯することを確認し，また，それ以外のボタンは点灯しないことを確認する。
(5) [SET UP] ボタンを押し，自己診断モードから抜ける。

(4) Press the buttons on the control panel and check that the pressed button illuminates and the unpressed buttons do not illuminate.
(5) Press the "SET UP" button to exit the self diagnostics mode.

2. Brightness test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

2. Brightness test

(1) Press the "SET UP" button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
2. Brightness Test
```

(3) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Press the "ENTER SAVE" button. The menu changes to the following display.

```
* Brightness Test *
?
```

(4) 左つまみを回し，下記のメニューを表示させ，コントロールパネルの左上のブロック（IC_27ブロック）のボタンをすべて点灯させる。

(4) Turn the left knob until the following menu appears and all the buttons of the block (IC_27 block) in the top left of the control panel illuminate.

```
* Brightness Test *
1. IC_27
```

(5) 点灯しているボタンの明るさのバラツキを確認する。
(6) 手順 (4)，(5) を繰り返し，すべてのブロックについて確認する。
(7) [SET UP] ボタンを押し，自己診断モードから抜ける。

(5) Check for variations of brightness of the lit buttons.
(6) Repeat the steps (4) and (5) to check all blocks.
(7) Press the “SET UP” button to exit the self diagnostics mode.

3. Display test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

3. Display test

(1) Press the “SET UP” button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
3. Display Test
```

(3) [ENTER SAVE] ボタンを押す。
(4) LCDディスプレイと，コントロールパネル上の英数文字表示器のすべてに，AからZまでのアルファベットが表示されることを確認する。
(5) [SET UP] ボタンを押し，自己診断モードから抜ける。

(3) Press the “ENTER SAVE” button.
(4) Check that all letters of the alphabet from A to Z are displayed on the LCD display and on the alphanumeric display of the control panel.
(5) Press the “SET UP” button to exit the self diagnostics mode.

4. Volume 1 test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

4. Volume 1 test

(1) Press the “SET UP” button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
4. Volume 1 Test
```

(3) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Press the “ENTER SAVE” button. The menu changes to the following display.

```
** Volume 1 Test **
?     ?     ?
```

(4) 左，中，右の各つまみを回すと，LCDディスプレイ上に，それぞれの値が16進数で表示される。
(5) [SET UP] ボタンを押し，自己診断モードから抜ける。

(4) Turn the left, center and right knobs respectively. The value of each knob appears on the LCD display as a hexadecimal digit.
(5) Press the “SET UP” button to exit the self diagnostics mode.

5. Volume 2 test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

5. Volume 2 test

(1) Press the “SET UP” button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
5. Volume 2 Test
```

(3) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Press the “ENTER SAVE” button. The menu changes to the following display.

```
** Volume 2 Test **
<LEVEL Knob
```

(4) 「LEVEL」つまみを回す。値がLCDディスプレイ上に16進数で表示される。時計方向一杯で“00h”，反時計方向一杯で“FFh”になることを確認する。
(5) [SET UP] ボタンを押し，自己診断モードから抜ける。

(4) Turn the “LEVEL” knob. The “LEVEL” appears on the LCD display as a hexadecimal digit. Check that “00h” appears at the fully clockwise position and that “FFh” appears at the fully counterclockwise position.
(5) Press the “SET UP” button to exit the self diagnostics mode.

6. Buzzer test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

6. Buzzer test

(1) Press the “SET UP” button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
6. Buzzer Test
```

(3) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Press the “ENTER SAVE” button. The menu changes to the following display.

```
*** Buzzer Test ***
```

(4) 左つまみを時計方向に回し，ブザーをONにする。
(5) ブザーが鳴ることを確認する。
(6) 左つまみを反時計方向に回し，ブザーをOFFにする。
(7) [SET UP] ボタンを押し，自己診断モードから抜ける。

(4) Turn the left knob clockwise to turn on the buzzer.
(5) Check that the buzzer sounds.
(6) Turn the left knob counterclockwise to turn off the buzzer.
(7) Press the “SET UP” button to exit the self diagnostics mode.

7. Serial port test

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

7. Serial port test

(1) Press the "SET UP" button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
7. Serial Port Test
```

(3) 3-2-1.項で述べた「SWITCHER」コネクタ用，「REMOTE」コネクタおよび「TERMINAL」コネクタ用の三つのテスト治具を，リアパネル上のそれぞれのD-SUB 9ピンコネクタに取り付ける。
(4) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Connect the three test tools for "SWITCHER" connector, "REMOTE" connector and "TERMINAL" connector to the corresponding D-SUB 9-pin connectors on the rear panel.
(4) Press the "ENTER SAVE" button. The menu changes to the following display.

```
* Serial Port Test *
SW=OK! RE=OK! TE=OK!
```

SW : "SWITCHER" port
RE : "REMOTE" port
TE : "TERMINAL" port

(5) メニューの各ポートの表示が "OK" であることを確認する。異常であれば，"NG" と表示される。
(6) [SET UP] ボタンを押し，自己診断モードから抜ける。

(5) Check that "OK" appears on each port of the menu. "NG" appears if there is any abnormality.
(6) Press the "SET UP" button to exit the self diagnostics mode.

8. Fader test

BKDS-M1040を装着した場合，この方法によりオーディオフェーダの動作範囲を規定するボリュームの調整を行います。また，オーディオフェーダが正常に動作することを確認します。

(1) [SET UP] ボタンを押し，自己診断モードを起動する。
(2) 左つまみを回し，下記のメニューを表示させる。

8. Fader test

If the BKDS-M1040 is installed, adjust the volume control which determines the operating range of the audio fader as follows. Check also that the audio fader functions correctly.

(1) Press the "SET UP" button to start the self diagnostics mode.
(2) Turn the left knob until the following menu appears.

```
**** DIAG MENU ****
8. Fader Test
```

(3) [ENTER SAVE] ボタンを押す。メニューは下記の表示に変わる。

(3) Press the "ENTER SAVE" button. The menu changes to the following display.

```
**** Fader Test ****
MIX1=xxxh MIX2=xxxh
```

xxx : 16進数
xxx : Hexadecimal digit

(4) 左つまみを反時計方向に回し，左側のフェーダを最下端に移動させる。同様に，右つまみを反時計方向に回し，右側のフェーダを最下端に移動させる。左，右つまみを回すと自動的にフェーダが上，下に移動する。

(5) パネルを開く。(1-2-1. 項参照)

(6) TP2の電圧が，デジタル電圧計で下表の規格値になるようにIF-533基板上のRV3を調整する。

(7) TP3の電圧が，デジタル電圧計で下表の規格値になるようにIF-533基板上のRV5を調整する。

(8) 左つまみを時計方向に回し，左側のフェーダを最上端に移動させる。同様に，右つまみを時計方向に回し，右側のフェーダを最上端に移動させる。

(9) TP2の電圧が，デジタル電圧計で下表の規格値になるようにIF-533基板上のRV2を調整する。

(10) TP3の電圧が，デジタル電圧計で下表の規格値になるようにIF-533基板上のRV4を調整する。

(4) Turn the left knob counterclockwise until the left fader moves to the bottom end. Turn the right knob counterclockwise until the right fader moves to the bottom end in the same manner. If the left and right knobs are turned, the fader moves up and down automatically.

(5) Open the panel. (Refer to the section 1-2-1.)

(6) Adjust RV3 on the IF-533 board until the TP2 voltage meets the specification shown in the following table using a digital voltmeter.

(7) Adjust RV5 on the IF-533 board until the TP3 voltage meets the specification shown in the following table using a digital voltmeter.

(8) Turn the left knob clockwise until the left fader moves to the top end. Turn the right knob clockwise until the right fader moves to the top end in the same manner. If the left and right knobs are turned, the fader moves up and down automatically.

(9) Adjust RV2 on the IF-533 board until the TP2 voltage meets the specification shown in the following table using a digital voltmeter.

(10) Adjust RV4 on the IF-533 board until the TP3 voltage meets the specification shown in the following table using a digital voltmeter.

Step	左右のつまみ Right and Left knobs	左右フェーダ位置 Position of Right and Left Faders	調整ボリューム Adjustment potentionmeter	測定点 Measurement point	規格値 Specification
(6)	反時計方向 Counter-clockwise	最下端 Bottom End	IF-533 board ⊘ RV3	IF-533 board TP2	30 ± 1 mV
(7)	反時計方向 Counter-clockwise	最下端 Bottom End	IF-533 board ⊘ RV5	IF-533 board TP3	30 ± 1 mV
(9)	時計方向 Clockwise	最上端 Top End	IF-533 board ⊘ RV2	IF-533 board TP2	9.970 ± 0.002 V
(10)	時計方向 Clockwise	最上端 Top End	IF-533 board ⊘ RV4	IF-533 board TP3	9.970 ± 0.002 V

(11) IF-533基板上のRV1を回し，LCDディスプレイ表示のMIX1，MIX2を両方とも“FFFh”に合わせる。

注意

MIX1，MIX2の表示が，必ず両方とも“FFFh”になるようにしてください。また，RV1を回しすぎないようにしてください。RV1を回しすぎると，フェーダの不感帯が拡大します。

(12) 左，右つまみを反時計方向に回し，両フェーダを最下端に移動させる。

(13) 左，右つまみを時計方向に回し，両フェーダを最上端へ移動さる。

(14) LCDディスプレイ表示のMIX1，MIX2が両方とも“FFFh”であることを確認する。表示が“FFFh”になっていないときは，再度手順 (11) を行う。

(15) パネルを閉じる。(1-2-1. 項参照)

(11) Adjust RV1 on the IF-533 board until the two “FFFh” appear to MIX 1 and MIX 2 displayed on the LCD display.

Note

Check that both MIX 1 and MIX 2 displays show “FFFh” . Take care also not to turn RV1 too far, otherwise the dead band of the faders increases.

(12) Turn the left and right knobs counterclockwise until both faders move to the bottom end.

(13) Turn the left and right knobs clockwise until both faders move to the top end.

(14) Check that the two “FFFh” appear to MIX 1 and MIX 2 displayed on the LCD display. If the display are not the “FFFh” , repeat step the (11) .

(15) Close the panel. (Refer to the section 1-2-1.)

(16) 左右のフェーダレバーを手動で動かし，スムーズに動くことを確認する。
このとき，LCDディスプレイ表示のMIX1，MIX2のそれぞれの左に“！”マークが表示されることを確認する。

注意

この“！”マークは，フェーダレバーを素手でさわると，それが検出され，表示されるものです。この確認は，必ずフェーダレバーを素手でさわって行ってください。素手でフェーダレバーをさわらないと“！”マークが表示されません。

(16) Move the left and right fader levers by MANUAL operation. Check that they move smoothly.
Check that “!” appear to the left of MIX1 and MIX2 displayed on the LCD display.

Note

When the fader lever is operated with a bare hand, it is detected and the “!” mark appear. Be sure to touch the fader levers with your bare hand in this check. If the fader levers are not touched by a bare hand, the “!” will not appear.

```
**** Fader  Test ****
! MIX1=xxxh ! MIX2=xxxh
```

xxx : 16 進数
xxx : Hexadecimal digit

(17) [SET UP] ボタンを押し，自己診断モードから抜ける。

(17) Press the “SET UP” button to exit the self diagnostics mode.

3-2-5. 自己診断モードの終了

(1) パネルを開く。(1-2-1. 項参照)
(2) 内部の電源スイッチをOFFにする。
(3) 内部のCPU-199基板上のディップスイッチ (S3) のスイッチ8をOFFにする。
(4) 電源スイッチをONにする。
(5) パネルを閉じる。(1-2-1. 項参照)

3-2-5. Terminating the Self Diagnostics Mode

(1) Open the panel (Refer to the section 1-2-1.)
(2) Turn off the power switch in BKDS-M1010.
(3) Set switch 8 of the DIP switch (S3) on the CPU-199 board to the “OFF” position.
(4) Turn on the power switch in BKDS-M1010.
(5) Close the panel (Refer to the section 1-2-1.)

3-3. プロッセサ (DVS-M1000C) のエラー表示

プロセッサ (DVS-M1000C) のエラーがコントロールパネル (BKDS-M1010) のディスプレイ上に表示されます。

3-3. Error Messages of Processor (DVS-M1000C)

In case of error in Processor (DVS-M1000C), the massages will be displayed on the LCD of control panel (BKDS-M1010).

エラーメッセージ Error messages	症状 Meaning
e00 No Reference!	リファレンス信号が入力されていない。 Reference signal is not coming.
e01 Reference Error!	セットアップメニュー「8.Video format」の設定が間違っている。 Setting of Setup menu "8. Video format" is wrong.
e02 Fan Stop Error!	DVS-M1000C のファン 4 つのうち，1 つ以上止まっている。 DVS-M1000C has maximum four fans, and one or more fun is stopped.
e03 +5V Fuse Error!	基板上の +5 V のヒューズが切れている。 +5 V fuse on some board burns.
e04 -5V Fuse Error!	基板上の -5 V のヒューズが切れている。 -5 V fuse on some board burns.
e05 +3V Fuse Error!	基板上の +3 V のヒューズが切れている。 +3 V fuse on some board burns.
e06 CPU Thermo Err!	CPU 基板の異常高温。 Thermo error on CPU board.
e07 Power Thermo Err!	電源部の異常高温。 Thermo error on Power supply.
e08 Upper Power Err!	上側電源ユニットの電圧異常または電源が切れている。 Error or turning off power supply at upper side.
e09 Lower Power Err!	下側電源ユニットの電圧異常または電源が切れている。 Error or turning off power supply at lower side.

第4章　定期点検および保守

Section 4　Periodic Check and Maintenance

4-1. クリーニング

4-1-1. フロントパネル

フロントパネルの裏側に付いているフィルタは，ほこりが付きやすいのでこまめにクリーニングを行なってください。
フィルタは，5年毎に交換することをお薦めします。

(1) フロントパネルを開く。(1-1-1項 参照)
(2) 掃除機で，フィルタに付着したほこりを吸い取る。

参考

ほこりの付着が激しい場合には，水洗いすることをお薦めします。
ただし，水洗いした場合には，よく乾かしてください。

4-1. Cleaning

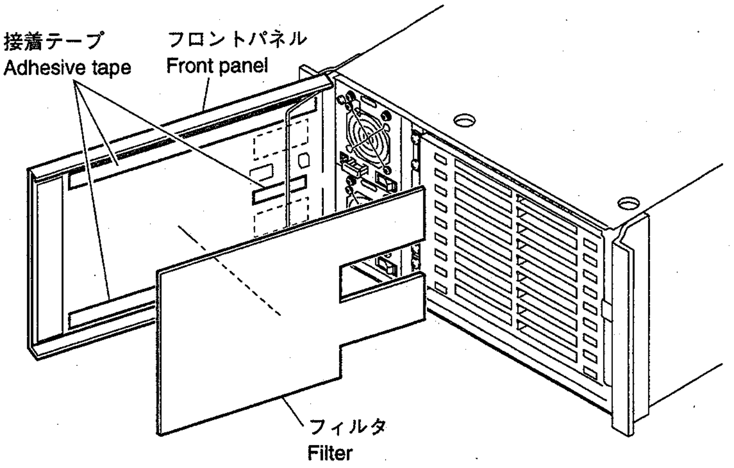
4-1-1. Front Panel

Clean periodically the filter at the back of the front panel because it is apt to catch dust.
It is recommended to replace the filter every five years.

(1) Open the front panel. (Refer to the section 1-1-1.)
(2) Remove dust on the filter using a vacuum cleaner.

Note

If dust is caught heavily, it is recommended to wash the filter.
When washing the filter, be sure to dry it well.



4-1-2. ファン

ファンの開口部にほこりが付着して,エアーの流れが妨げられると,セット内の温度上昇を招き,機械の性能および寿命に悪影響を与える恐れがあります。
１ヶ月毎にクリーニングすることをお勧めします。

(フロント側ファン)
(1) フロントパネルを開く。(1-1-1項参照)
(2) 掃除機で,ファンおよびファンガードに付着したほこりを吸い取る。

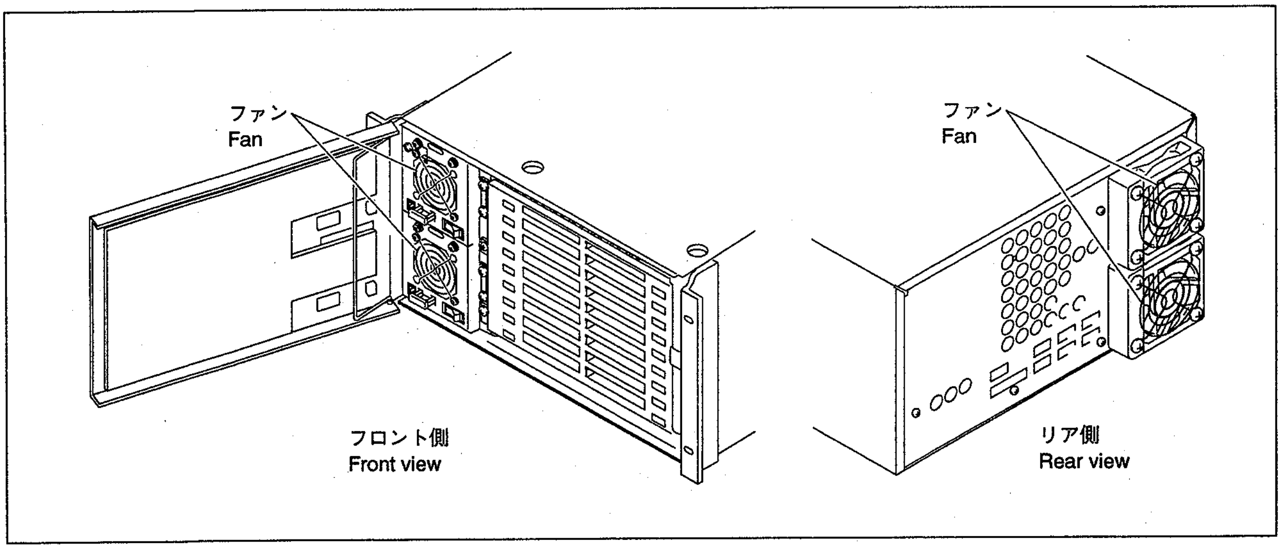
(リア側ファン)
(1) 掃除機で,ファンおよびファンガードに付着したほこりを吸い取る。

4-1-2. Fan

The temperature in the set increases if dust is attached to the opening block of a fan and the air flow is disturbed. This may badly influence the performance and life of the set.
It is recommended to clean the fans every one month.

(Fan of Front side)
(1) Open the front panel. (Refer to the section 1-1-1.)
(2) Remove dust on the fan and the fan guard using a vacuum cleaner.

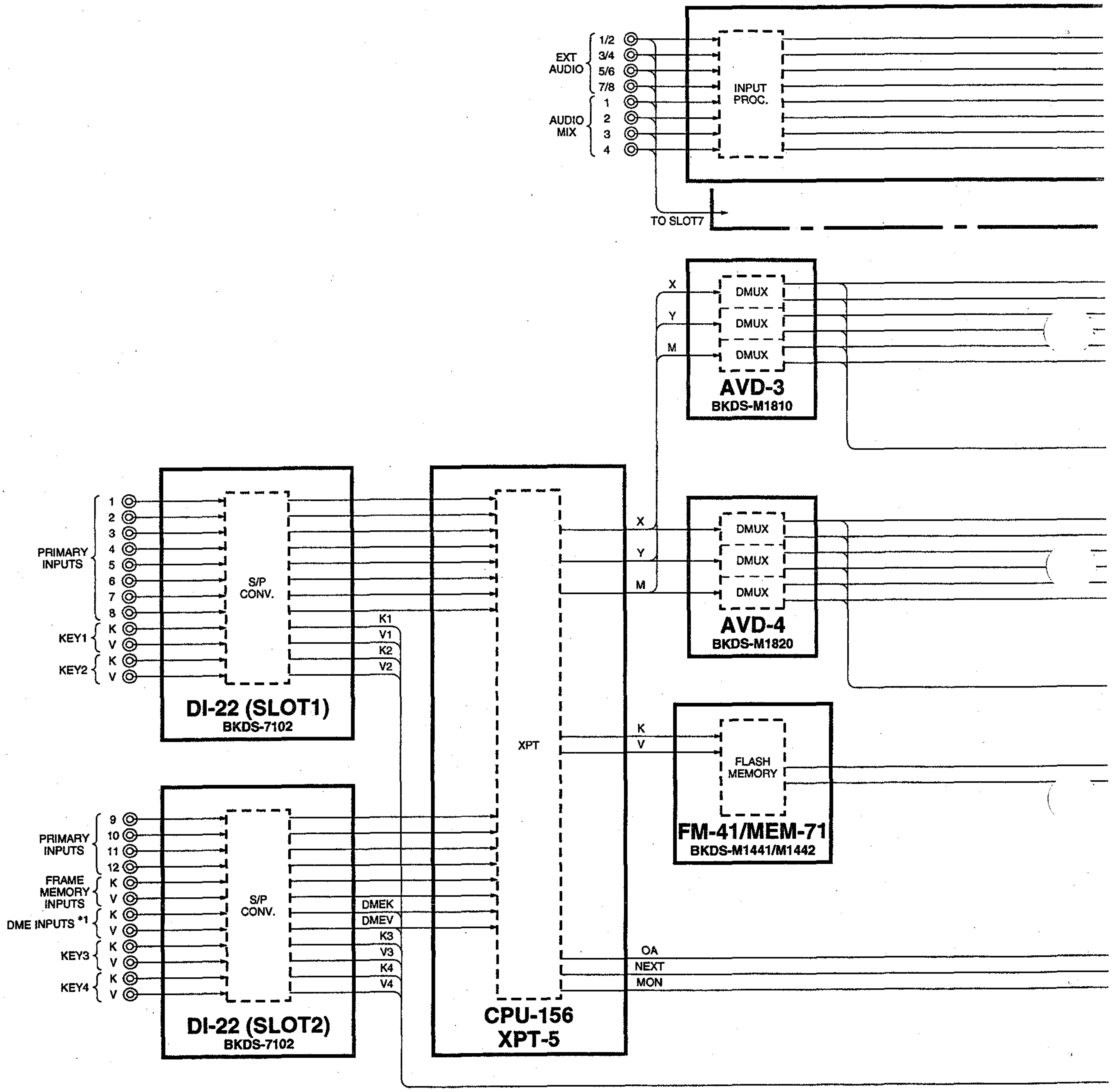
(Fan of Rear side)
(1) Remove dust on the fan and the fan guard using a vacuum cleaner.



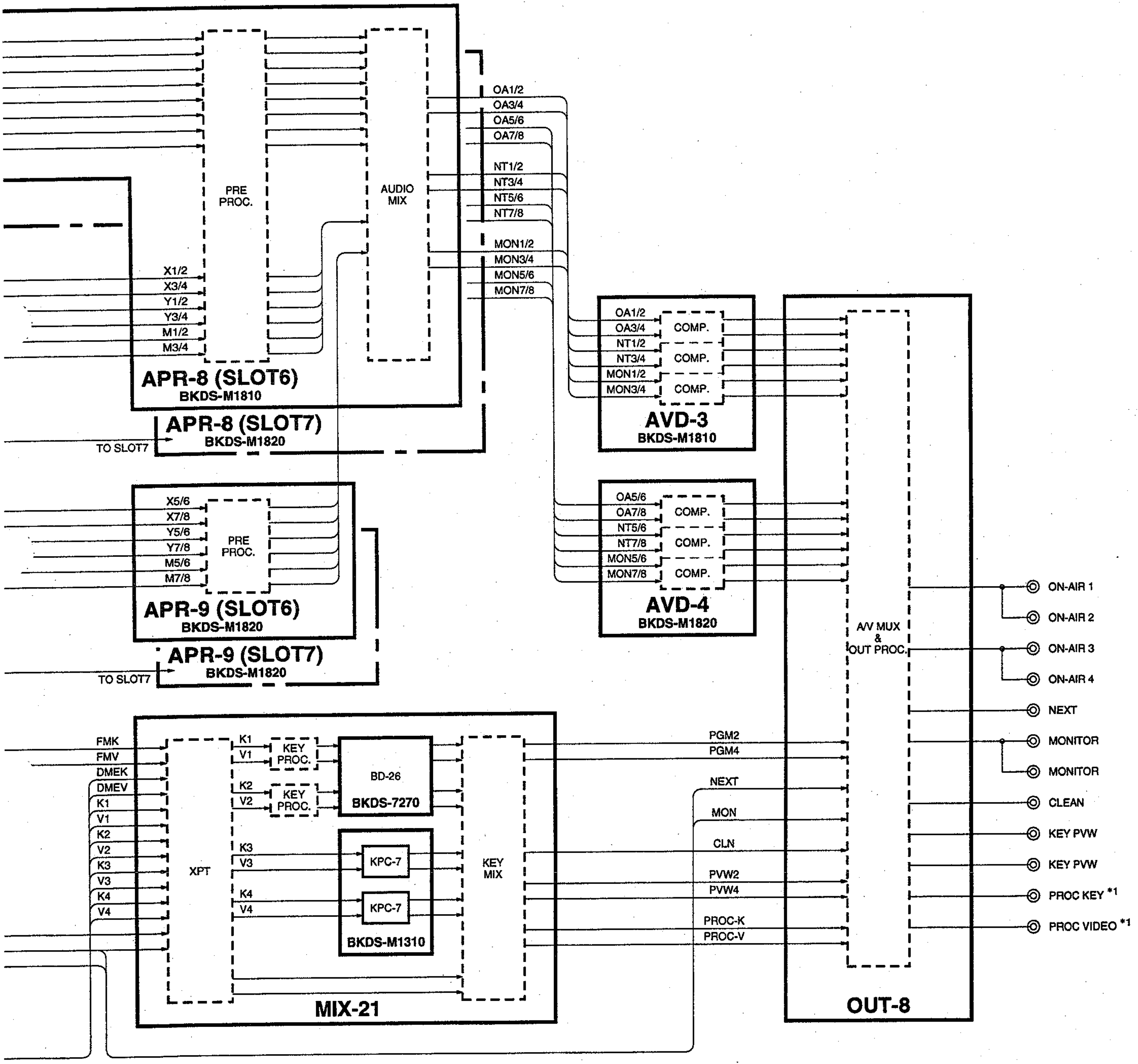
Section 5
Overall Block Diagrams

VS-M1000C OVERALL

5-1. DVS-M1000C


EXT AUDIO
1/2
3/4
5/6
7/8
AUDIO MIX
1
2
3
4
INPUT PROC.
TO SLOT7
X
Y
M
DMUX
DMUX
DMUX
AVD-3
BKDS-M1810
PRIMARY INPUTS
1
2
3
4
5
6
7
8
KEY1
K
V
KEY2
K
V
S/P CONV.
K1
V1
K2
V2
DI-22 (SLOT1)
BKDS-7102
XPT
X
Y
M
DMUX
DMUX
DMUX
AVD-4
BKDS-M1820
K
V
FLASH MEMORY
FM-41/MEM-71
BKDS-M1441/M1442
PRIMARY INPUTS
9
10
11
12
FRAME MEMORY INPUTS
K
V
DME INPUTS *1
K
V
KEY3
K
V
KEY4
K
V
S/P CONV.
DMEK
DMEV
K3
V3
K4
V4
DI-22 (SLOT2)
BKDS-7102
OA
NEXT
MON
CPU-156
XPT-5

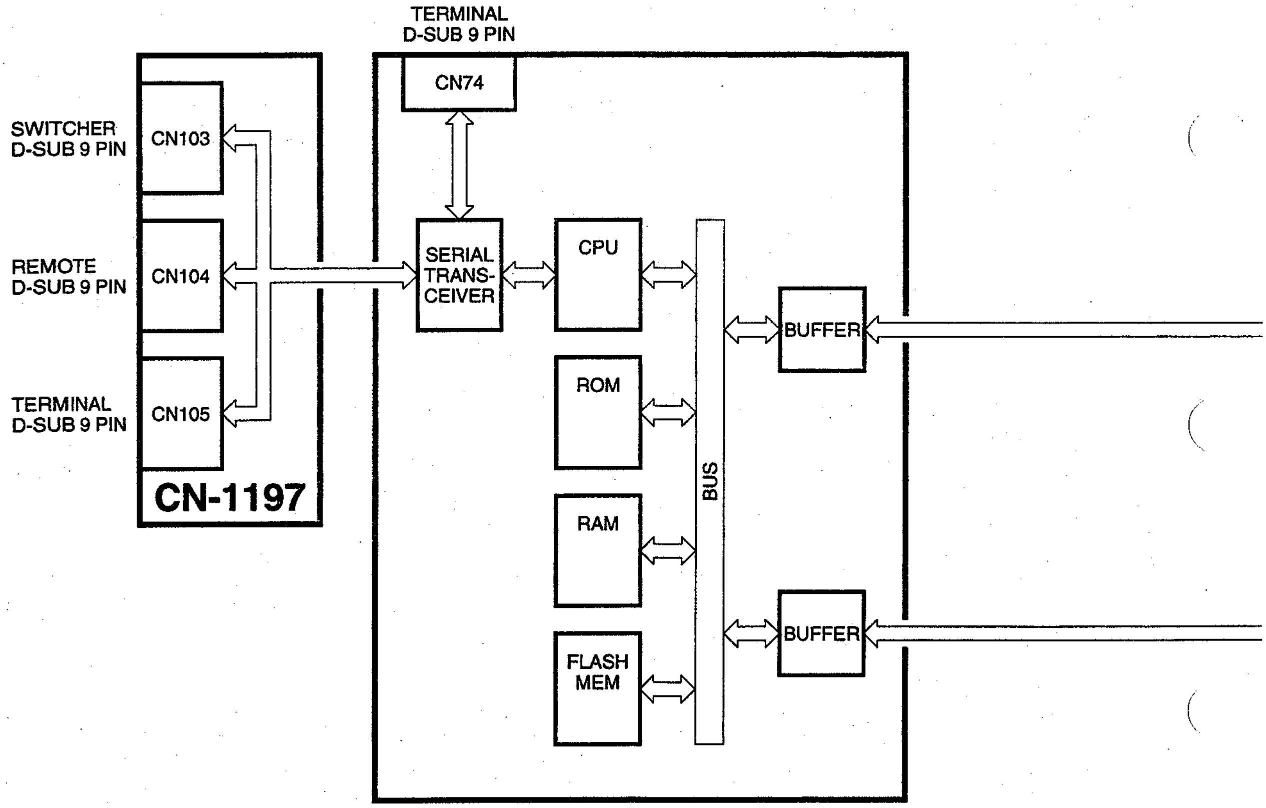
*1: For future expansion

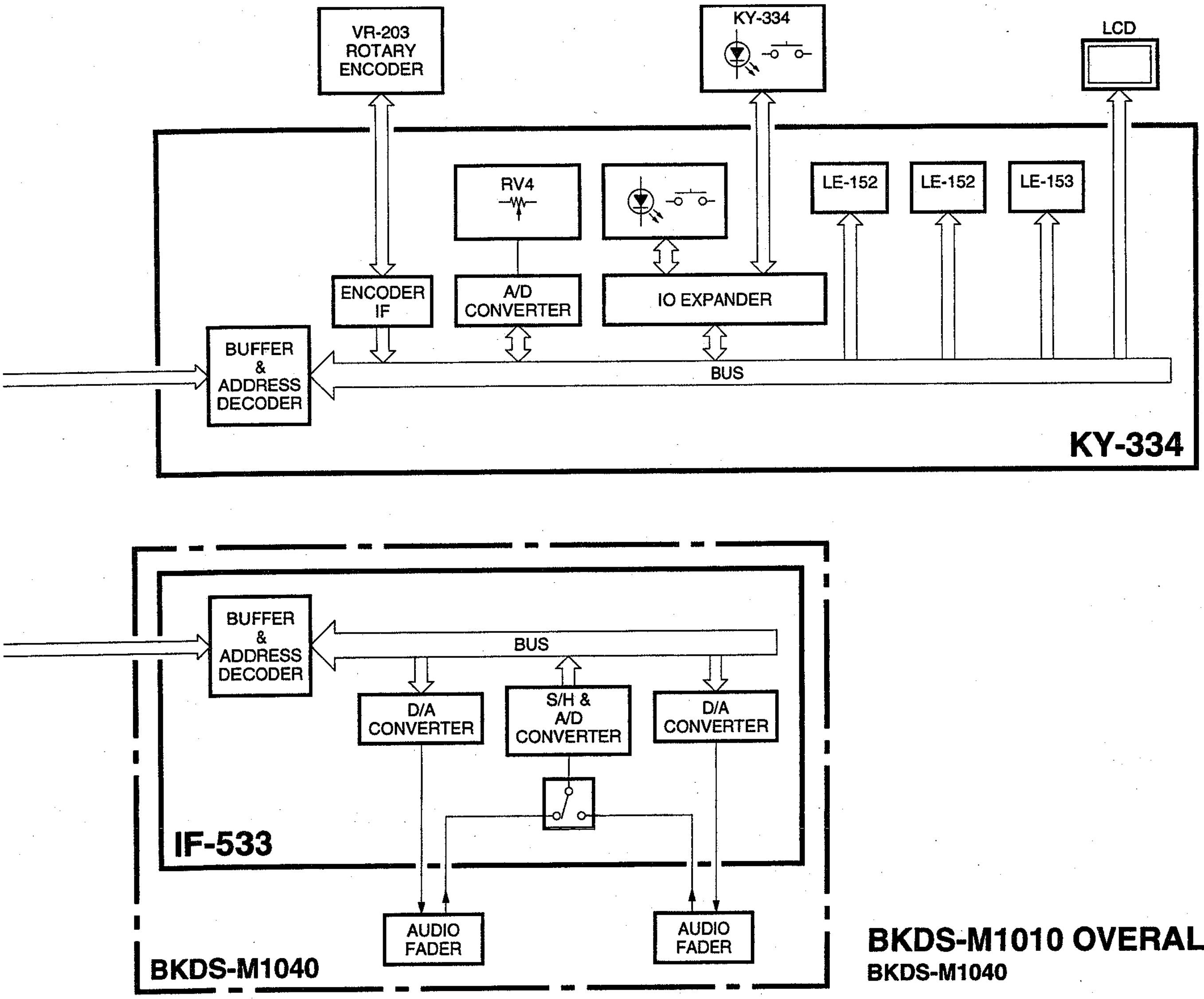

PRE PROC.
AUDIO MIX
OA1/2
OA3/4
OA5/6
OA7/8
NT1/2
NT3/4
NT5/6
NT7/8
MON1/2
MON3/4
MON5/6
MON7/8
X1/2
X3/4
Y1/2
Y3/4
M1/2
M3/4
APR-8 (SLOT6)
BKDS-M1810
APR-8 (SLOT7)
BKDS-M1820
TO SLOT7
X5/6
X7/8
Y5/6
Y7/8
M5/6
M7/8
PRE PROC.
APR-9 (SLOT6)
BKDS-M1820
APR-9 (SLOT7)
BKDS-M1820
TO SLOT7
OA1/2
OA3/4
NT1/2
NT3/4
MON1/2
MON3/4
COMP.
COMP.
COMP.
AVD-3
BKDS-M1810
OA5/6
OA7/8
NT5/6
NT7/8
MON5/6
MON7/8
COMP.
COMP.
COMP.
AVD-4
BKDS-M1820
A/V MUX & OUT PROC.
OUT-8
ON-AIR 1
ON-AIR 2
ON-AIR 3
ON-AIR 4
NEXT
MONITOR
MONITOR
CLEAN
KEY PVW
KEY PVW
PROC KEY *1
PROC VIDEO *1
FMK
FMV
DMEK
DMEV
K1
V1
K2
V2
K3
V3
K4
V4
XPT
K1
V1
KEY PROC.
K2
V2
KEY PROC.
BD-26
BKDS-7270
K3
V3
K4
V4
KPC-7
KPC-7
BKDS-M1310
KEY MIX
MIX-21
PGM2
PGM4
NEXT
MON
CLN
PVW2
PVW4
PROC-K
PROC-V

DVS-M1000C OVERALL

BKDS-7102 BKDS-M1442
BKDS-7270 BKDS-M1810
BKDS-M1310 BKDS-M1820
BKDS-M1441

5-2. BKDS-M1010


TERMINAL
D-SUB 9 PIN
CN74
SWITCHER
D-SUB 9 PIN
CN103
REMOTE
D-SUB 9 PIN
CN104
TERMINAL
D-SUB 9 PIN
CN105
CN-1197
SERIAL
TRANS-
CEIVER
CPU
ROM
RAM
FLASH
MEM
BUS
BUFFER
BUFFER


VR-203
ROTARY
ENCODER
KY-334
LCD
RV4
LE-152
LE-152
LE-153
ENCODER
IF
A/D
CONVERTER
IO EXPANDER
BUFFER
&
ADDRESS
DECODER
BUS
KY-334
BUFFER
&
ADDRESS
DECODER
BUS
D/A
CONVERTER
S/H &
A/D
CONVERTER
D/A
CONVERTER
IF-533
AUDIO
FADER
AUDIO
FADER
BKDS-M1040

BKDS-M1010 OVERALL
BKDS-M1040

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

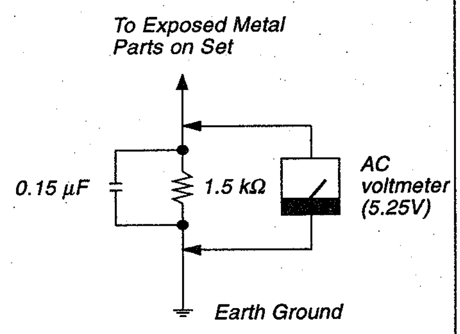


Fig A. Using an AC voltmeter to check AC leakage.

SONY

DIGITAL MASTER SWITCHER

DVS-M1000C

DIGITAL VIDEO SWITCHER

DVS-7000

DIGITAL MULTI KEYER

DMK-7000

MASTER SWITCHER CONTROL PANEL
BKDS-M1010

TYPE-3 D SWITCHER CONTROL PANEL
BKDS-7011/7011R/7011LR
BKDS-7012/7012R/7012LR

TYPE-4 D SWITCHER CONTROL PANEL
BKDS-7021/7021R/7021LR
BKDS-7022/7022R/7022LR
BKDS-7023/7023R/7023LR

KEYER REMOTE CONTROL PANEL
BKDS-7060

BKDS-2031
BKDS-2032
BKDS-2041
BKDS-2070
BKDS-7001
BKDS-7030
BKDS-7031
BKDS-7032
BKDS-7075
BKDS-7090
BKDS-7102
BKDS-7110
BKDS-7111
BKDS-7112
BKDS-7133
BKDS-7161
BKDS-7162
BKDS-7180
BKDS-7270
BKDS-7280
BKDS-7300
BKDS-7320
BKDS-7430
BKDS-7443
BKDS-7445
BKDS-7690
BKDS-7691
BKDS-M1040
BKDS-M1090
BKDS-M1310
BKDS-M1441
BKDS-M1442
BKDS-M1690
BKDS-M1810
BKDS-M1820
BZS-7010
BZS-7020
BZS-7310
BZS-7320
BZS-7350
BZS-7360
BZS-M1020
BZS-M1120

MAINTENANCE MANUAL Part 2

Volume 5 1st Edition (Revised 1)

SCHEMATIC DIAGRAMS 1 (A through I)

⚠ 警告

このマニュアルは，サービス専用です。

お客様が，このマニュアルに記載された設置や保守，点検，修理など行うと感電や火災，人身事故につながることがあります。

危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

DVS-M1000C	Serial No.10001 and Higher	BKDS-7112	Serial No.10001 and Higher
DVS-7000	Serial No.10001 and Higher	BKDS-7133	Serial No.10001 and Higher
DMK-7000	Serial No.10001 and Higher	BKDS-7161	Serial No.10001 and Higher
BKDS-2031	Serial No.10001 and Higher	BKDS-7162	Serial No.10001 and Higher
BKDS-2032	Serial No.10001 and Higher	BKDS-7180	Serial No.10001 and Higher
BKDS-2041	Serial No.10001 and Higher	BKDS-7270	Serial No.10001 and Higher
BKDS-2070	Serial No.10001 and Higher	BKDS-7280	Serial No.10001 and Higher
BKDS-7001	Serial No.10001 and Higher	BKDS-7300	Serial No.10001 and Higher
BKDS-7011	Serial No.10001 and Higher	BKDS-7320	Serial No.10001 and Higher
BKDS-7012	Serial No.10001 and Higher	BKDS-7430	Serial No.10001 and Higher
BKDS-7021	Serial No.10001 and Higher	BKDS-7443	Serial No.10001 and Higher
BKDS-7022	Serial No.10001 and Higher	BKDS-7445	Serial No.10001 and Higher
BKDS-7023	Serial No.10001 and Higher	BKDS-7690	Serial No.10001 and Higher
BKDS-7011R	Serial No.10001 and Higher	BKDS-7691	Serial No.10001 and Higher
BKDS-7012R	Serial No.10001 and Higher	BKDS-M1010	Serial No.10001 and Higher
BKDS-7021R	Serial No.10001 and Higher	BKDS-M1040	Serial No.10001 and Higher
BKDS-7022R	Serial No.10001 and Higher	BKDS-M1090	Serial No.10001 and Higher
BKDS-7023R	Serial No.10001 and Higher	BKDS-M1310	Serial No.10001 and Higher
BKDS-7011LR	Serial No.10001 and Higher	BKDS-M1441	Serial No.10001 and Higher
BKDS-7012LR	Serial No.10001 and Higher	BKDS-M1442	Serial No.10001 and Higher
BKDS-7021LR	Serial No.10001 and Higher	BKDS-M1690	Serial No.10001 and Higher
BKDS-7022LR	Serial No.10001 and Higher	BKDS-M1810	Serial No.10001 and Higher
BKDS-7023LR	Serial No.10001 and Higher	BKDS-M1820	Serial No.10001 and Higher
BKDS-7030	Serial No.10001 and Higher	BZS-7010	Serial No.10001 and Higher
BKDS-7031	Serial No.10001 and Higher	BZS-7020	Serial No.10001 and Higher
BKDS-7032	Serial No.10001 and Higher	BZS-7310	Serial No.10001 and Higher
BKDS-7060	Serial No.10001 and Higher	BZS-7320	Serial No.10001 and Higher
BKDS-7075	Serial No.10001 and Higher	BZS-7350	Serial No.10001 and Higher
BKDS-7090	Serial No.10001 and Higher	BZS-7360	Serial No.10001 and Higher
BKDS-7102	Serial No.10001 and Higher	BZS-M1020	Serial No.10001 and Higher
BKDS-7110	Serial No.10001 and Higher	BZS-M1120	Serial No.10001 and Higher
BKDS-7111	Serial No.10001 and Higher		

目次
Table of Contents

このマニュアルについて

本書の目的 ... 3
コントロールパネルの機種名表記について ... 3
構成 ... 3
関連マニュアル ... 4

Manual Structure

Purpose of this manual ... 3
About the model names of the control panels ... 3
Contents ... 3
Related manuals ... 4

1. Location of Mounted Circuit Boards

1-1. DVS-M1000C ... 1-2
1-2. BKDS-M1010 ... 1-3
1-3. DVS-7000 ... 1-4
1-4. BKDS-7011 ... 1-6
1-5. BKDS-7012 ... 1-7
1-6. BKDS-7021 ... 1-8
1-7. BKDS-7022 ... 1-9
1-8. BKDS-7023 ... 1-10
1-9. BKDS-7011R ... 1-11
1-10. BKDS-7012R ... 1-12
1-11. BKDS-7021R ... 1-13
1-12. BKDS-7022R ... 1-14
1-13. BKDS-7023R ... 1-15
1-14. BKDS-7011LR ... 1-16
1-15. BKDS-7012LR ... 1-17
1-16. BKDS-7021LR ... 1-18
1-17. BKDS-7022LR ... 1-19
1-18. BKDS-7023LR ... 1-20
1-19. BKDS-7030/7031/7075 ... 1-21
1-20. DMK-7000 ... 1-22
1-21. BKDS-7060 ... 1-23

2. Overall Block Diagrams & Frame Wiring

2-1. DVS-M1000C OVERALL BLOCK ... 2-2
FRAME WIRING ... 2-3
2-2. BKDS-M1010 OVERALL BLOCK ... 2-4
FRAME WIRING ... 2-5
2-3. DVS-7000 OVERALL BLOCK ... 2-8
FRAME WIRING ... 2-10
2-4. BKDS-7011/7012 OVERALL BLOCK ... 2-12
FRAME WIRING ... 2-15
2-5. BKDS-7021/7022/7023 OVERALL BLOCK ... 2-24
FRAME WIRING ... 2-27
2-6. BKDS-701xR/701xLR OVERALL BLOCK ... 2-37
FRAME WIRING ... 2-40
2-7. BKDS-702xR/702xLR OVERALL BLOCK ... 2-49
FRAME WIRING ... 2-52
2-8. DMK-7000 OVERALL BLOCK ... 2-62
FRAME WIRING ... 2-63
2-9. BKDS-7060 OVERALL BLOCK/FRAME WIRING ... 2-64

3. Schematic Diagrams

ADC-21 BOARD ... 3-4
ADC-22 BOARD ... 3-17
ADI-3 BOARD ... 3-26
APR-8 BOARD ... 3-28
APR-9 BOARD ... 3-44
AVD-3 BOARD ... 3-50
AVD-4 BOARD ... 3-58
BD-26 BOARD ... 3-64
CN-1140 BOARD ... 3-72
CN-1143 BOARD ... 3-74
CN-1145 BOARD ... 3-77
CN-1146 BOARD ... 3-80
CN-1148 BOARD ... 3-82
CN-1171 BOARD ... 3-84
CN-1197 BOARD ... 3-88
CN-1295 BOARD ... 3-89
CPU-156 BOARD ... 3-90
CPU-191 BOARD ... 3-104
CPU-192 BOARD ... 3-118
CPU-198 BOARD ... 3-136
CPU-199 BOARD ... 3-142

CRK-10 BOARD 3-145
CRK-11 BOARD 3-162
DA-94 BOARD 3-186
DEC-85 BOARD 3-188
DI-22 BOARD 3-190
DI-24 BOARD 3-203
ENC-34 BOARD 3-204
FM-41 BOARD 3-220
IF-523 BOARD 3-227
IF-533 BOARD 3-228
IF-629 BOARD 3-231

このマニュアルについて
Manual Structure

本書の目的

本書は，デジタルマスタースイッチャー DVS-M1000C，デジタルビデオスイッチャー DVS-7000，デジタルマルチキーヤー DMK-7000のメンテナンスマニュアル パート2です。
本書は，サービスエンジニアの方々にご使用いただくことを想定し，これらの機種の部品レベルまでのサービスを前提とした情報（ブロック図，補修用部品，部品交換要項，半導体ピンアサイン，マウント図，回路図等）を記載しています。

Purpose of this manual

This manual is the maintenance manual part 2 of Digital Master Switcher DVS-M1000C, Digital Video Switcher DVS-7000, Digital Multi Keyer DMK-7000.
This manual is intended for use by trained system and service engineers, and describes the information for detailed service information with the intention of servicing including block diagrams, detailed spare parts list, parts replacement, semiconductor pin assignments, board layouts, schematic diagrams.

コントロールパネルの機種名表記について

本書では，コントロールパネルの機種名を以下のように表記します。

About the model names of the control panels

This manual is described the model name of the control panels as shown the table below.

Model name	Short model name	Shortest model name
BKDS-7011	BKDS-701x	BKDS-70xx
BKDS-7012		
BKDS-7021	BKDS-702x	
BKDS-7022		
BKDS-7023		
BKDS-7011R	BKDS-701xR	BKDS-70xxR
BKDS-7012R		
BKDS-7021R	BKDS-702xR	
BKDS-7022R		
BKDS-7023R		
BKDS-7011LR	BKDS-701xLR	BKDS-70xxLR
BKDS-7012LR		
BKDS-7021LR	BKDS-702xLR	
BKDS-7022LR		
BKDS-7023LR		

構成

本書の構成を把握していただくために，全章の概略を以下に説明します。

メンテナンスマニュアル　パート2 Volume1
(ブロック図)
第1章　Location of Mounted Circuit Boards
基板配置図を記載しています。
第2章　Overall Block Diagrams and Frame Wirings
オーバーオールブロック図とフレーム図を記載しています。
第3章　Block Diagrams
ブロック図をアルファベット順で記載しています。

メンテナンスマニュアル　パート2 Volume2
(補修用部品，部品交換要項)
第1章　Location of Mounted Circuit Boards
基板配置図を記載しています。
第2章　Spare Parts
補修用部品を記載しています。
第3章　サービスインフォメーション
延長基板，デジタルTPケーブルの使用方法を記載しています。
第4章　部品交換要項
コネクタ，電源部の交換を記載しています。

メンテナンスマニュアル　パート2 Volume3
(半導体ピンアサイン)
第1章　Semiconductor Pin Assignments
半導体のピンアサインを記載しています。

メンテナンスマニュアル　パート2 Volume4
(マウント図)
第1章　Location of Mounted Circuit Boards
基板配置図を記載しています。
第2章　Board Layouts
基板のマウント図をアルファベット順で記載しています。

Contents

This manual is organized by following sections.

Maintenance Manual　Part2 Volume1
(Block diagrams)
Section 1　Location of Mounted Circuit Boards
This section describes the location of mounted circuit boards.
Section 2　Overall Block Diagrams and Frame Wirings
This section describes the overall block diagrams and frame wirings.
Section 3　Block Diagrams
This section describes the block diagrams in the alphabetical order.

Maintenance Manual　Part2 Volume2
(Spare parts and Parts replacement)
Section 1　Location of Mounted Circuit Boards
This section describes the location of mounted circuit boards.
Section 2　Spare Parts
This section describes detailed spare parts list.
Section 3　Service Overview
This section describes the use of extension board and the use of digital TP cable.
Section 4　Replacement of Main Parts
This section describes replacement of connectors and power supply block.

Maintenance Manual　Part2 Volume3
(Semiconductor pin assignments)
Section 1　Semiconductor Pin Assignments
This section describes the semiconductor pin assignments.

Maintenance Manual　Part2 Volume4
(Board layouts)
Section 1　Location of Mounted Circuit Boards
This section describes the location of mounted circuit boards.
Section 2　Board Layouts
This section describes the board layouts of mounted circuit boards in the alphabetical order.

メンテナンスマニュアル　パート2 Volume5
(Schematic diagrams 1 A~I)

第1章　Location of Mounted Circuit Boards
基板配置図を記載しています。

第2章　Overall Block Diagrams and Frame Wirings
オーバーオールブロック図とフレーム図を記載しています。

第3章　Schematic Diagrams
基板回路図をAからIまでのアルファベット順で記載しています。

メンテナンスマニュアル　パート2 Volume6
(Schematic diagrams 2 K~Z)

第1章　Location of Mounted Circuit Boards
基板配置図を記載しています。

第2章　Overall Block Diagrams and Frame Wirings
オーバーオールブロック図とフレーム図を記載しています。

第3章　Schematic Diagrams
基板回路図をKからZまでのアルファベット順で記載しています。

Maintenance Manual　Part2 Volume5
(Schematic diagrams 1 A through I)

Section 1　Location of Mounted Circuit Boards
This section describes the location of mounted circuit boards.

Section 2　Overall Block Diagrams and Frame Wirings
This section describes the overall block diagrams and frame wirings.

Section 3　Schematic Diagrams
This section describes the schematic diagrams of the mounted circuit boards in the alphabetical order from A to I.

Maintenance Manual　Part2 Volume6
(Schematic diagrams 2 K through Z)

Section 1　Location of Mounted Circuit Boards
This section describes the location of mounted circuit boards.

Section 2　Overall Block Diagrams and Frame Wirings
This section describes the overall block diagrams and frame wirings.

Section 3　Schematic Diagrams
This section describes the schematic diagrams of the mounted circuit boards in the alphabetical order from K to Z.

関連マニュアル

これらの機種には，この「メンテナンスマニュアル パート2」のほかに，下記のマニュアルが用意されています。

- ユーザーズガイド
  (BZS-M1020/M1120/7010/7310/7350 に付属)
  これらの機種を実際に運用および操作するのに必要なマニュアルです。

- オペレーションマニュアル
  (DVS-M1000C, DVS-7000, DMK-7000, BKDS-7060 に付属)
  これらの機種の概要，システム構成例，仕様について記載したマニュアルです。

- インストレーションマニュアル
  (DVS-M1000C, DVS-7000, DMK-7000, BKDS-7060 に付属)
  これらの機種の納入設置時に必要な情報を記載しています。

- メンテナンスマニュアル パート1
  (DVS-M1000C, DVS-7000, DMK-7000, BKDS-7060 に付属)
  これらの機種の保守に関する情報，あるいはブロックおよび基板交換によるサービスを前提とした情報を記載したマニュアルです。

Related manuals

The following manuals are prepared for DVS-M1000C, DVS-7000 and DMK-7000.

- User's Guide
  (Supplied with BZS-M1020, M1120, 7020, 7320 and 7360)
  This manual describes the application and operation of DVS-M1000C, DVS-7000 and DMK-7000.

- Operation Manual
  (Supplied with DVS-M1000C, DVS-7000, DMK-7000 and BKDS-7060)
  This manual describes the overview, system configuration examples and specification.

- Installation Manual
  (Supplied with DVS-M1000C, DVS-7000, DMK-7000 and BKDS-7060)
  This manual describes the information when installing DVS-M1000C, DVS-7000, DMK-7000 and BKDS-7060.

- Maintenance Manual　Part1
  (Supplied with DVS-M1000C, DVS-7000, DMK-7000 and BKDS-7060)
  This manual describes the information for general service and periodic maintenance with the intention of servicing including the replacement of the principal blocks and mounted circuit boards.

Section 1
Location of Mounted Circuit Boards

DVS-M1000C Digital Master Switcher **Page 1-2**

Option	Function name
BKDS-7102	12Input Serial Digital Board
BKDS-7162	Serial Digital Output Board
BKDS-7270	Key Border Board
BKDS-M1310	Keyer Expansion Boards
BKDS-M1441	Frame Memory Board
BKDS-M1690	Redundant Power Supply Unit
BKDS-M1810	Audio Process Boards
BKDS-M1820	Audio Channel Expansion Boards

BKDS-M1010 Master Switcher Control Panel **Page 1-3**

Option	Function name
BKDS-M1040	Audio Faders
BKDS-M1090	Redundant Power Supply Unit

DMK-7000 Digital Multi Keyer **Page 1-22**

Option	Function name
BKDS-7111	Analog Composite Input Board
BKDS-7112	Serial Digital Input Board
BKDS-7161	Analog Composite Output Board
BKDS-7162	Serial Digital Output Board
BKDS-7180	DME Interface Board
BKDS-7300	Linear Keyer Board
BKDS-7320	Luminance Keyer/Border Board
BKDS-7430	Color Vector Keyer Board
BKDS-7443	Frame Memory Board
BKDS-7691	Redundant Power Supply Unit

BKDS-7060 Keyer Remote Control Panel **Page 1-23**

DVS-7000 Digital Video Switcher **Page 1-4**

Option	Function name
BKDS-2031	Chromakey Board
BKDS-2032	Chromakey Upgrade Board
BKDS-2041	Frame Memory Board
BKDS-2070	Enhanced Wipe Generator Board
BKDS-7102	12Input Serial Digital Board
BKDS-7110	Blank Input Adaptor Board
BKDS-7111	Analog Composite Input Board
BKDS-7112	Serial Digital Input Board
BKDS-7133	CRK Analog Component Input Board
BKDS-7161	Analog Composite Output Board
BKDS-7162	Serial Digital Output Board
BKDS-7270	Key Border Board
BKDS-7445	Frame Memory Composite Adaptor Board
BKDS-7446	Frame Memory Component Adaptor Board
BKDS-7690	Redundant Power Supply Unit

BKDS-7011 Type-3D Switcher Control Panel **Page 1-6**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7011R Type-3D Switcher Control Panel **Page 1-11**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7011LR Type-3D Switcher Control Panel **Page 1-16**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7012 Type-3D Switcher Control Panel **Page 1-7**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7012R Type-3D Switcher Control Panel **Page 1-12**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7012LR Type-3D Switcher Control Panel **Page 1-17**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7032	DSK Control Panel Unit	
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7021 Type-4D Switcher Control Panel **Page 1-8**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7021R Type-4D Switcher Control Panel **Page 1-13**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7021LR Type-4D Switcher Control Panel **Page 1-18**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7022 Type-4D Switcher Control Panel **Page 1-9**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7022R Type-4D Switcher Control Panel **Page 1-14**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7022LR Type-4D Switcher Control Panel **Page 1-19**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7023 Type-4D Switcher Control Panel **Page 1-10**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7023R Type-4D Switcher Control Panel **Page 1-15**

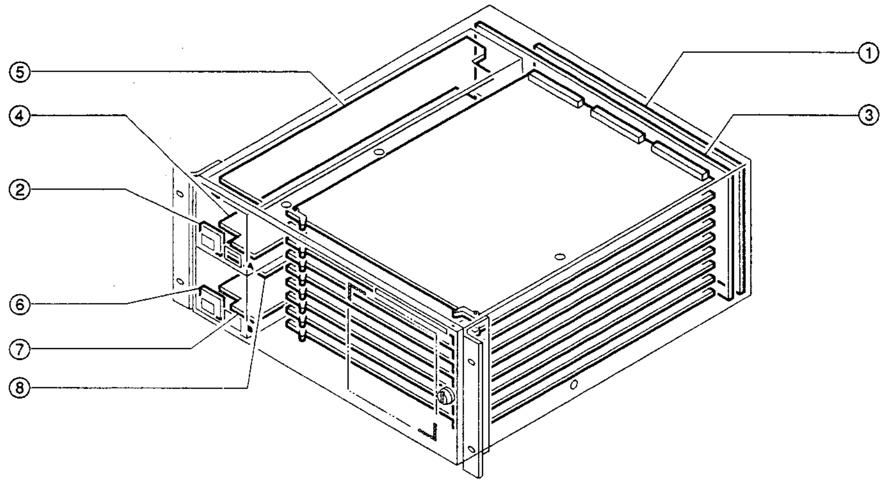
Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

BKDS-7023LR Type-4D Switcher Control Panel **Page 1-20**

Option	Function name	
BKDS-7001	Control Port Expansion Board	
BKDS-7030	Key Frame Control Panel Unit	Page 1-21
BKDS-7031	DME Control Panel Unit	Page 1-21
BKDS-7075	Control Panel Remote Adaptor	Page 1-21
BKDS-7090	Redundant Power Supply Unit	

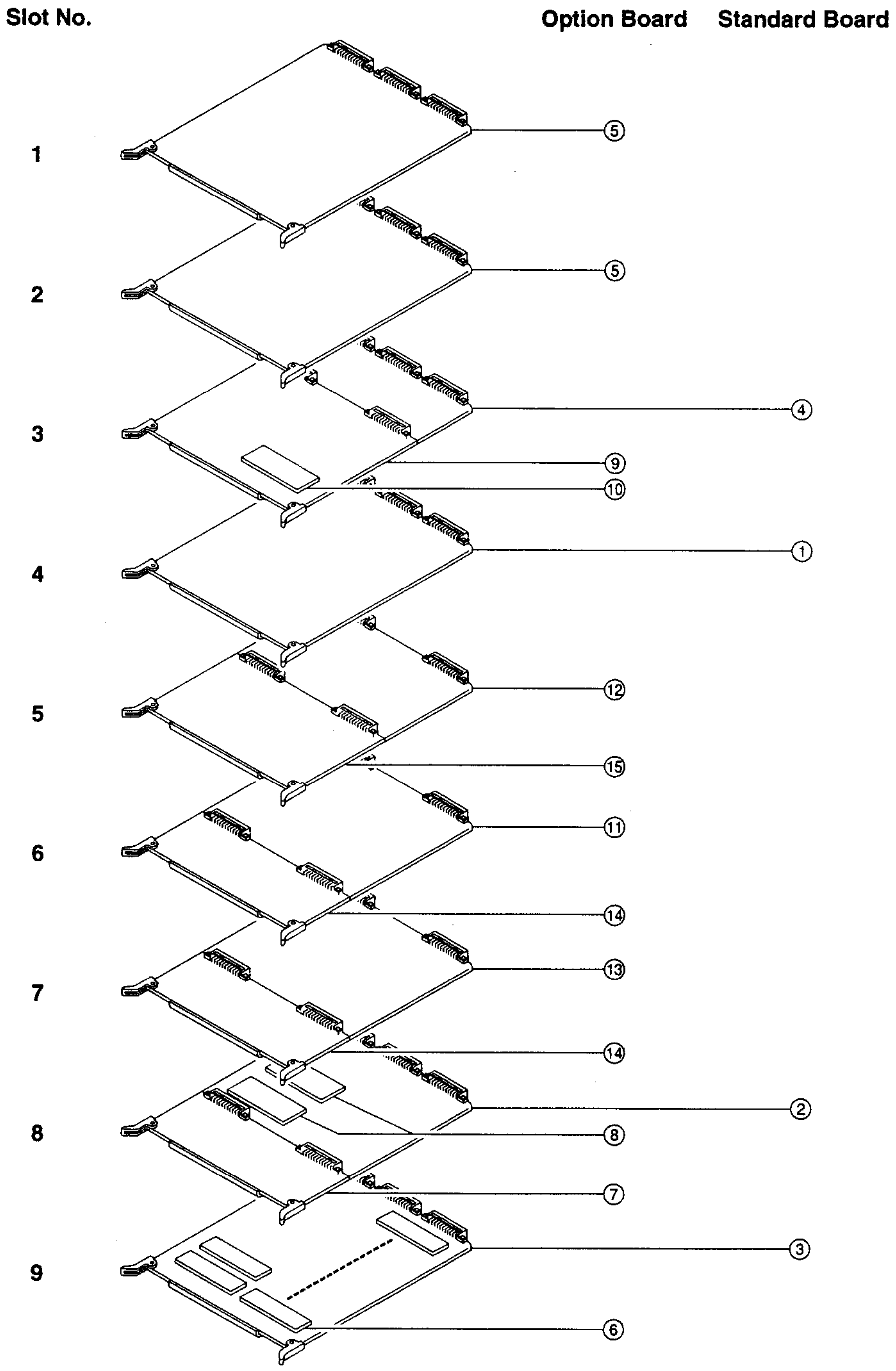
1-1. DVS-M1000C

1. Except Plug-in Boards



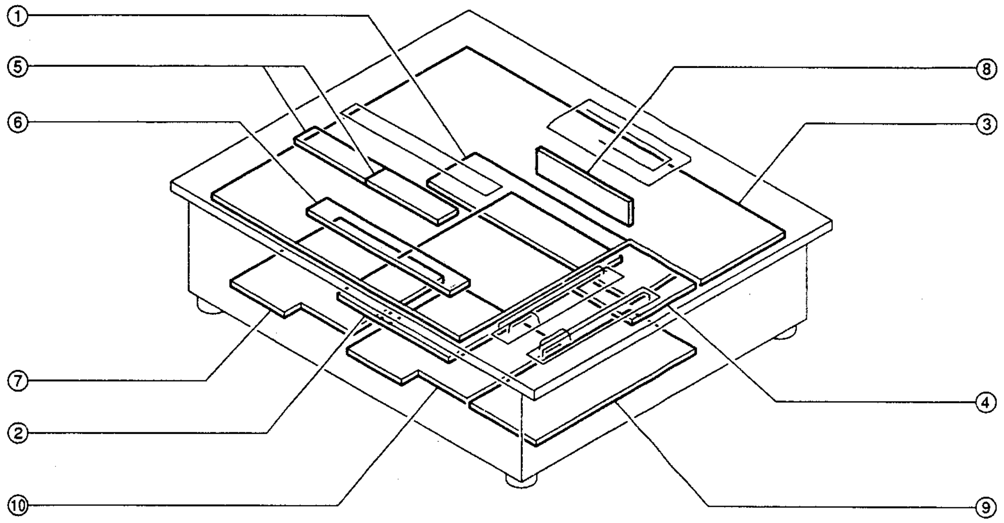
No.	Board name	Circuit function	Model name
1	CN-1140	Connector Board	DVS-M1000C
2	LE-156	LED Board	
3	MB-616	Mother Board	
4	RE-114	Power Supply AC-DC Board	
5	RE-115A	Power Supply DC-DC Board	
6	LE-156	LED Board	BKDS-M1690
7	RE-114	Power Supply AC-DC Board	
8	RE-115A	Power Supply DC-DC Board	

2. Plug-in Boards


Slot No.
Option Board
Standard Board
1
⑤
2
⑤
3
④
⑨
⑩
4
①
5
⑫
⑮
6
⑪
⑭
7
⑬
⑭
8
②
⑧
⑦
9
③
⑥

No.	Board name	Circuit function	Model name
1	CPU-156	System Control Board	DVS-M1000C
2	MIX-21	Video Mixer Board	
3	OUT-8	Output Processor Board	
4	XPT-5	Cross Point Board	
5	DI-22	12 Input Serial Digital Board	BKDS-7102
6	SD-34	Serial Digital Output Board	BKDS-7162
7	BD-26	Key Border Board	BKDS-7270
8	KPC-7	Keyer Expansion Board	BKDS-M1310
9	FM-41	Frame Memory Board	BKDS-M1441
10	MEM-71	Frame Memory Expansion Board	BKDS-M1442
11	APR-8	Audio Process Board	BKDS-M1810
12	AVD-3	A/V Demultiplex/Multiplex Board	
13	APR-8	Audio Process Board	BKDS-M1820
14	APR-9	Audio Process Board	
15	AVD-4	A/V Demultiplex/Multiplex Board	

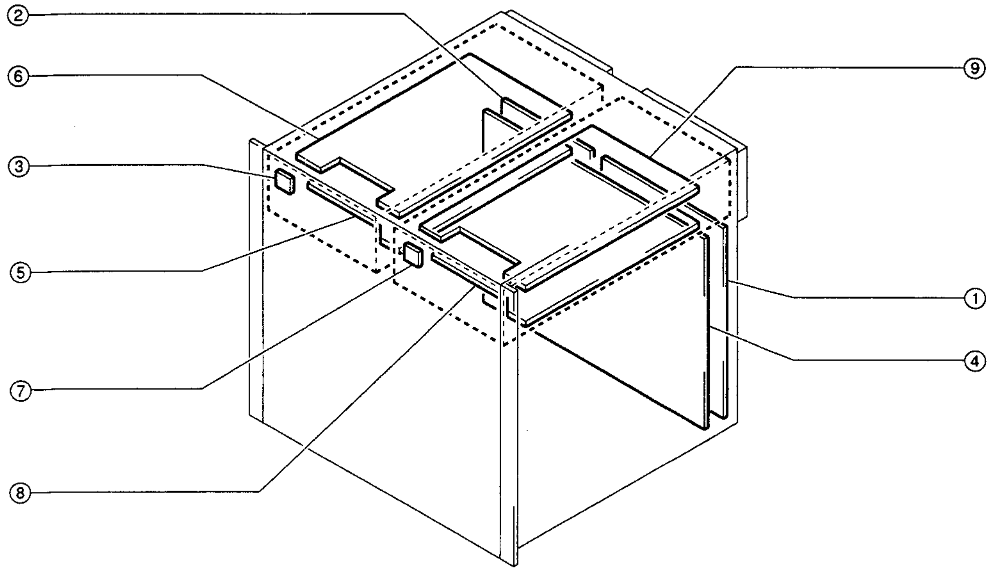
1-2. BKDS-M1010



No.	Board name	Circuit function	Model name
1	CN-1197	Connector Board	BKDS-M1010
2	CPU-199	System Control Board	
3	KY-334	Switch Board	
4	KY-335	Switch Board	
5	LE-152	LED Board	
6	LE-153	LED Board	
7	RE-121	Power Supply Board	
8	VR-203	Rotary Encoder Board	
9	IF-533	Audio Fader Interface Board	BKDS-M1040
10	RE-121	Power Supply Board	BKDS-M1090

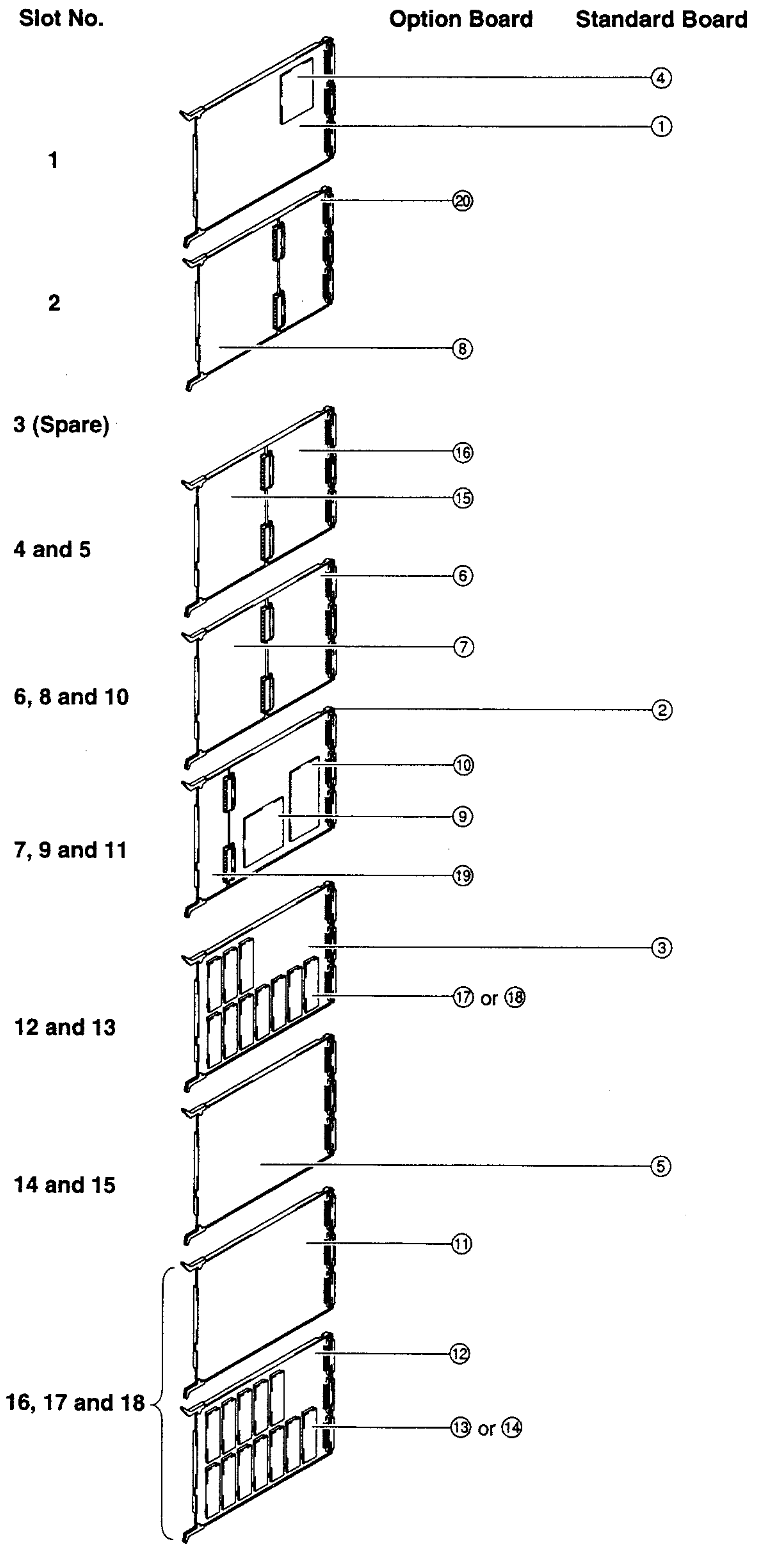
1-3. DVS-7000

1. Except Plug-in Boards



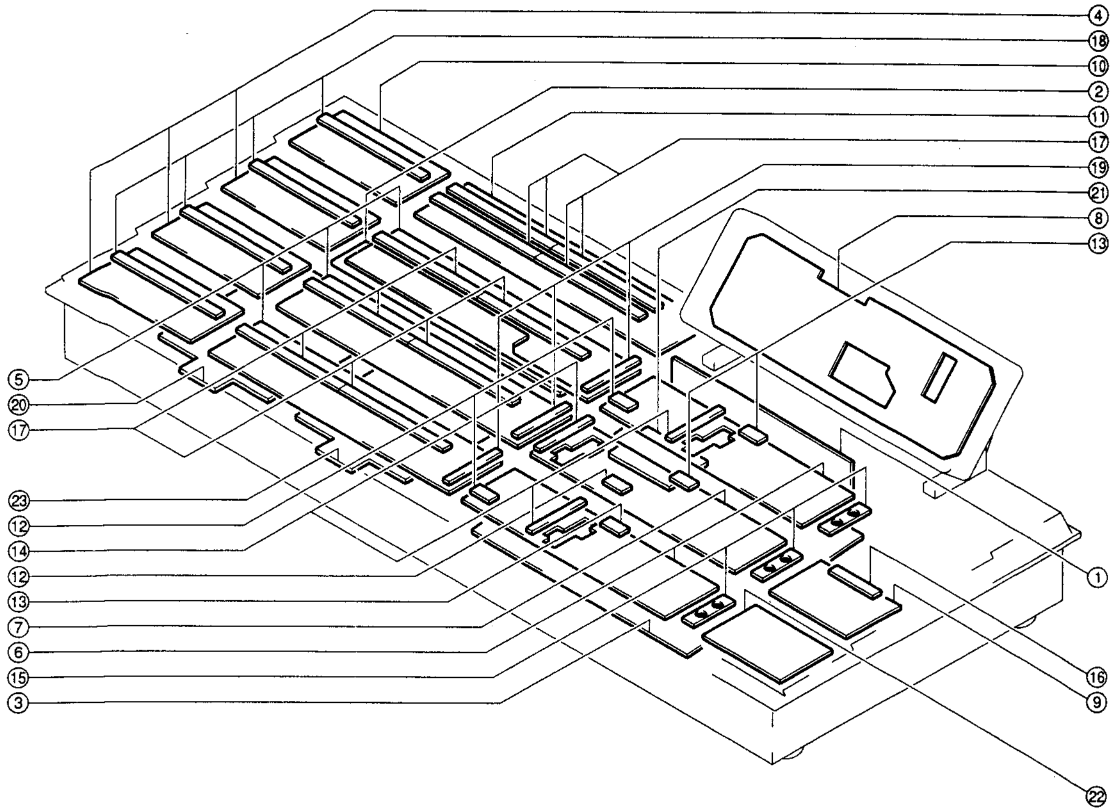
No.	Board name	Circuit function	Model name
1	CN-1145	Connector Board	DVS-7000
2	CN-1146	Connector Board	
3	LE-55	LED Board	
4	MB-618	Mother Board	
5	RE-109	Power Supply DC-DC Board	
6	RE-110	Power Supply DC-DC Board	
7	LE-55	LED Board	BKDS-7690
8	RE-109	Power Supply AC-DC Board	
9	RE-110	Power Supply DC-DC Board	

2. Plug-in Boards


Slot No.
Option Board
Standard Board
1
2
3 (Spare)
4 and 5
6, 8 and 10
7, 9 and 11
12 and 13
14 and 15
16, 17 and 18
④
①
⑳
⑧
⑯
⑮
⑥
⑦
②
⑩
⑨
⑲
③
⑰ or ⑱
⑤
⑪
⑫
⑬ or ⑭

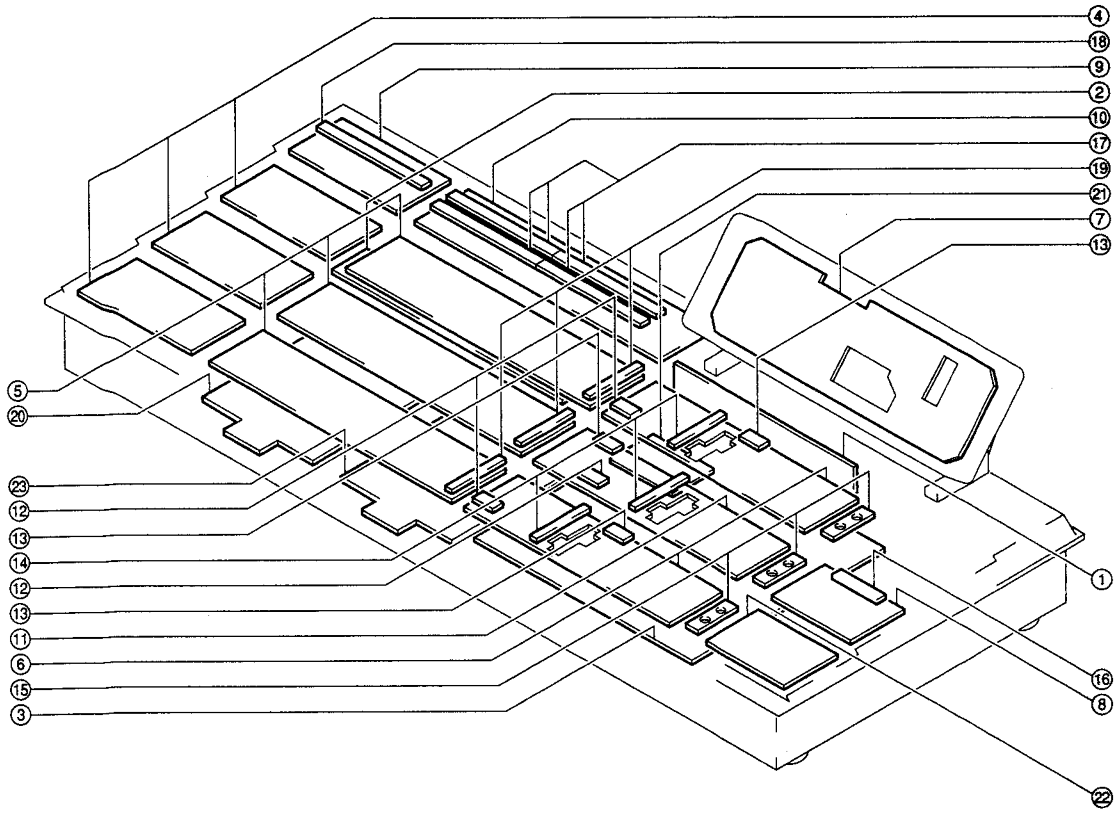
No.	Board name	Circuit function	Model name
1	CPU-192	System Control Board	DVS-7000
2	MIX-35	Video Mixer Board	
3	OUT-9	Output Processor Board	
4	RAM-18	CPU Expansion Board	
5	XPT-10	Cross Point Board	
6	CRK-10	Chromakey Board	BKDS-2031
7	CRK-11	Chromakey Upgrade Board	BKDS-2032
8	MY-66	Frame Memory Board	BKDS-2041
9	WKG-12	Enhanced Wipe Generator Board	BKDS-2070
10	UP-10	ME PVW Board	BKDS-7280
11	DI-22	12Input Serial Digital Board	BKDS-7102
12	ADC-21	Blank Input Adaptor Board	BKDS-7110
13	ADI-3	Analog Composite Input Board	BKDS-7111
14	DI-24	Serial Digital Input Board	BKDS-7112
15	ADC-22	Chromakey Analog Component Input Board	BKDS-7133
16	ENC-34	Encorder Board	
17	DA-94	Analog Composite Output Board	BKDS-7161
18	SD-34	Serial Digital Output Board	BKDS-7162
19	BD-26	Key Border Board	BKDS-7270
20	YC-59	Frame Memory Adaptor Board	BKDS-7445

1-4. BKDS-7011



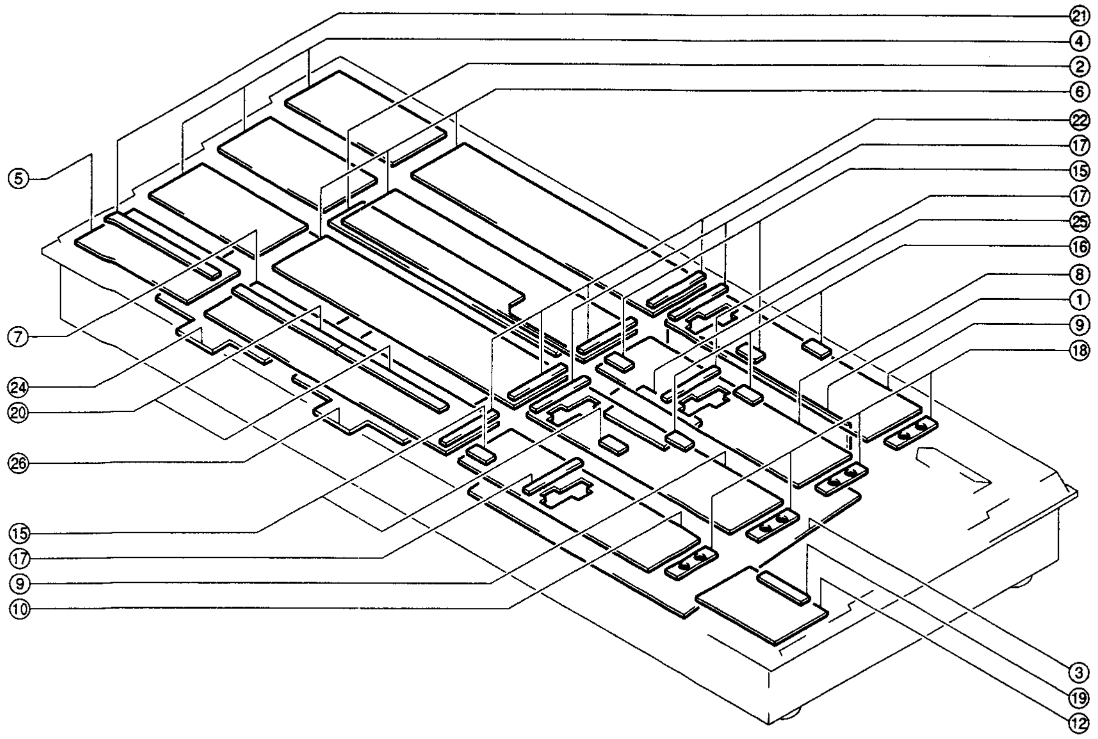
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7011
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	KY-318A	Switch Board	
5	KY-319A	Switch Board	
6	KY-320	Switch Board	
7	KY-321	Switch Board	
8	KY-323	Switch Board	
9	KY-324	Switch Board	
10	KY-331	Switch Board	
11	KY-332	Switch Board	
12	LE-142	LED Board	
13	LE-143	LED Board	
14	LE-144	LED Board	
15	LE-145	LED Board	
16	LE-146	LED Board	
17	LE-147	LED Board	
18	LE-148	LED Board	
19	LE-150	LED Board	
20	RE-112	Power Supply Board	
21	IF-523	Control Port Expansion Board	BKDS-7001
22	KY-325	DSK Control Panel Unit	BKDS-7032
23	RE-112	Power Supply Board	BKDS-7090

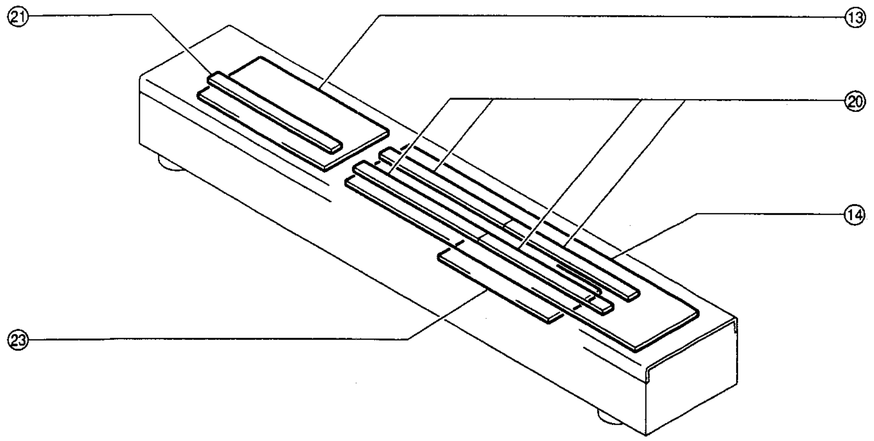
1-5. BKDS-7012

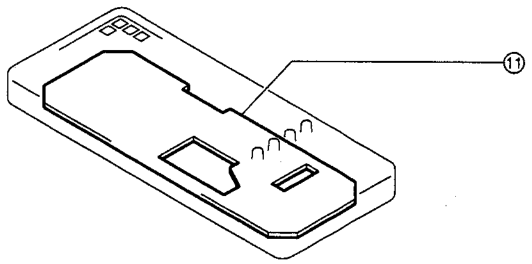


No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7012
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	KY-318B	Switch Board	
5	KY-319B	Switch Board	
6	KY-320	Switch Board	
7	KY-323	Switch Board	
8	KY-324	Switch Board	
9	KY-331	Switch Board	
10	KY-332	Switch Board	
11	KY-367	Switch Board	
12	LE-142	LED Board	
13	LE-143	LED Board	
14	LE-144	LED Board	
15	LE-145	LED Board	
16	LE-146	LED Board	
17	LE-147	LED Board	
18	LE-148	LED Board	
19	LE-150	LED Board	
20	RE-112	Power Supply Board	
21	IF-523	Control Port Expansion Board	BKDS-7001
22	KY-325	DSK Control Panel Unit	BKDS-7032
23	RE-112	Power Supply Board	BKDS-7090

1-6. BKDS-7021

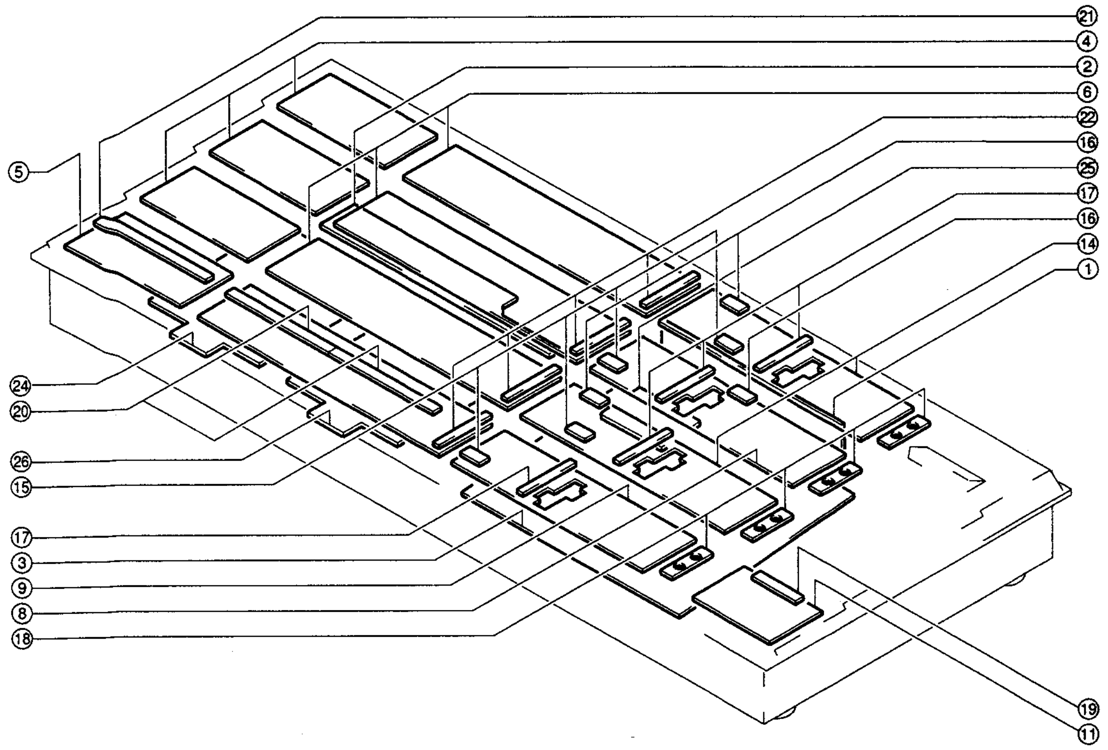


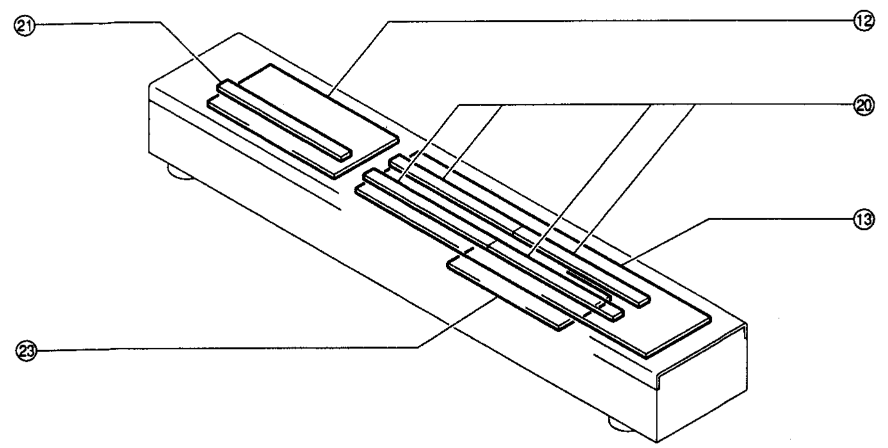


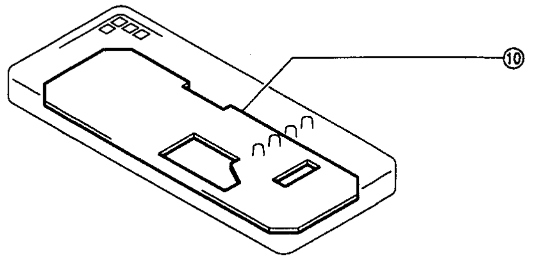


No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7021
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	KY-318B	Switch Board	
5	KY-318C	Switch Board	
6	KY-319B	Switch Board	
7	KY-319C	Switch Board	
8	KY-320	Switch Board	
9	KY-321	Switch Board	
10	KY-322	Switch Board	
11	KY-323	Switch Board	
12	KY-324	Switch Board	
13	KY-331	Switch Board	
14	KY-332	Switch Board	
15	LE-142	LED Board	
16	LE-143	LED Board	
17	LE-144	LED Board	
18	LE-145	LED Board	
19	LE-146	LED Board	
20	LE-147	LED Board	
21	LE-148	LED Board	
22	LE-150	LED Board	
23	PS-403	DC-DC Converter Board	
24	RE-112	Power Supply Board	
25	IF-523	Control Port Expansion Board	BKDS-7001
26	RE-112	Power Supply Board	BKDS-7090

1-7. BKDS-7022

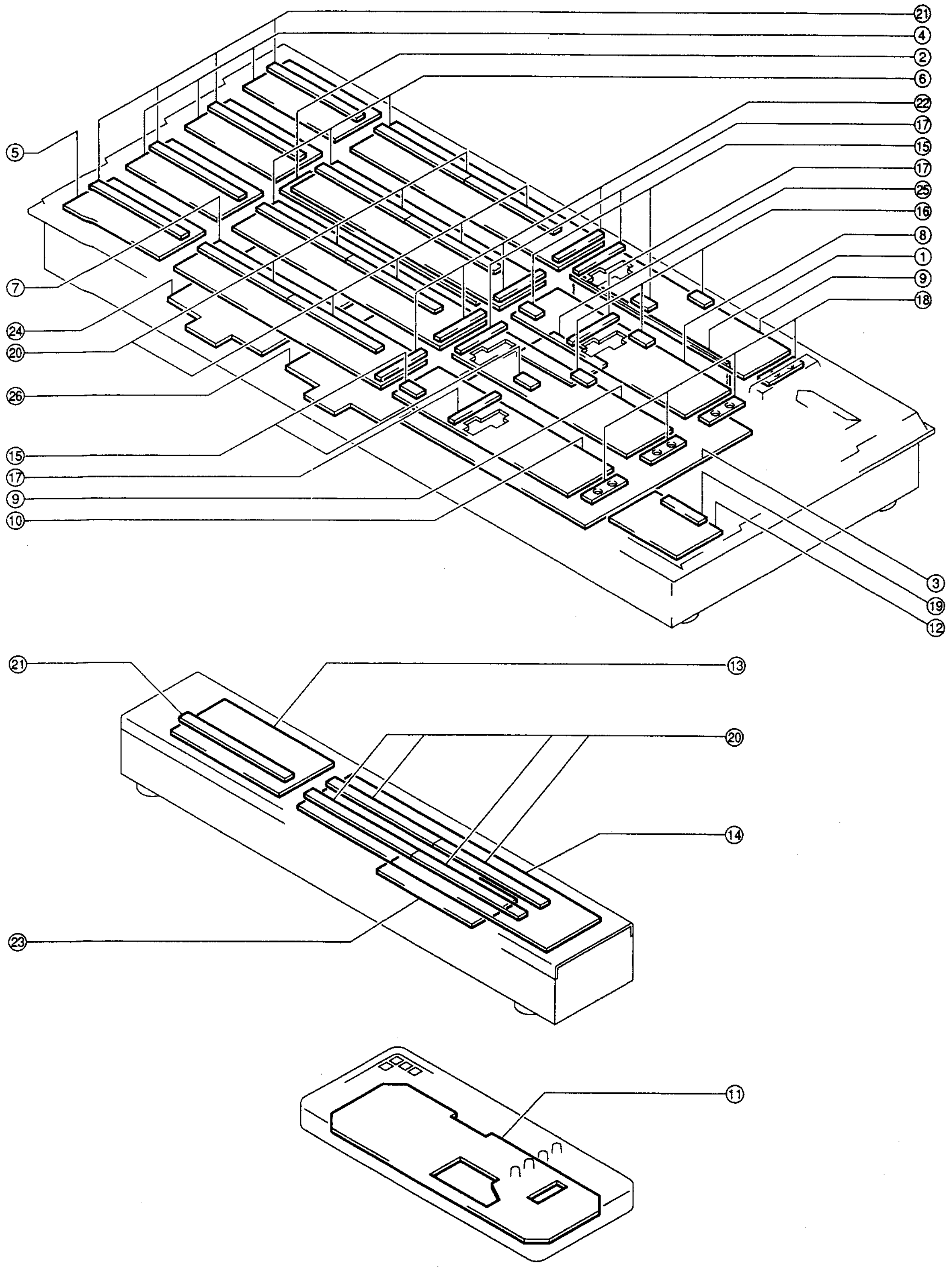






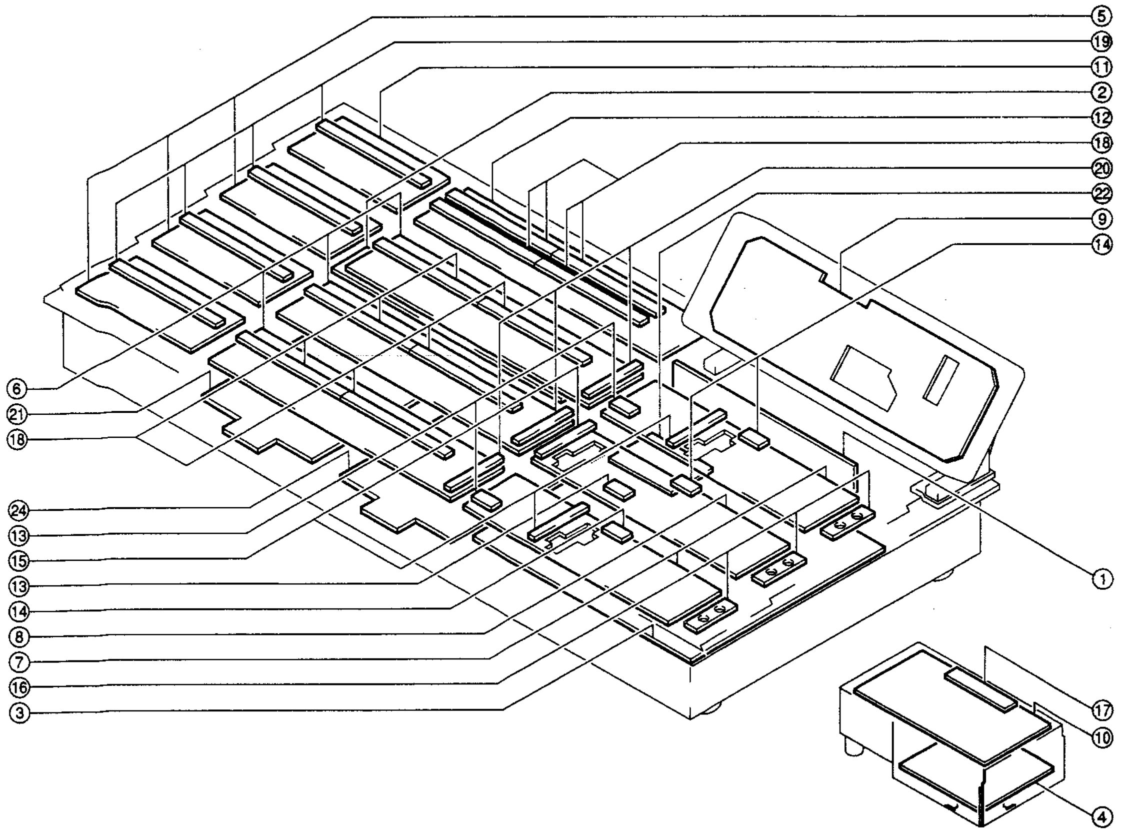
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7022
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	KY-318B	Switch Board	
5	KY-318C	Switch Board	
6	KY-319B	Switch Board	
7	KY-319C	Switch Board	
8	KY-320	Switch Board	
9	KY-322	Switch Board	
10	KY-323	Switch Board	
11	KY-324	Switch Board	
12	KY-331	Switch Board	
13	KY-332	Switch Board	
14	KY-367	Switch Board	
15	LE-142	LED Board	
16	LE-143	LED Board	
17	LE-144	LED Board	
18	LE-145	LED Board	
19	LE-146	LED Board	
20	LE-147	LED Board	
21	LE-148	LED Board	
22	LE-150	LED Board	
23	PS-403	DC-DC Converter Board	
24	RE-112	Power Supply Board	
25	IF-523	Control Port Expansion Board	BKDS-7001
26	RE-112	Power Supply Board	BKDS-7090

1-8. BKDS-7023



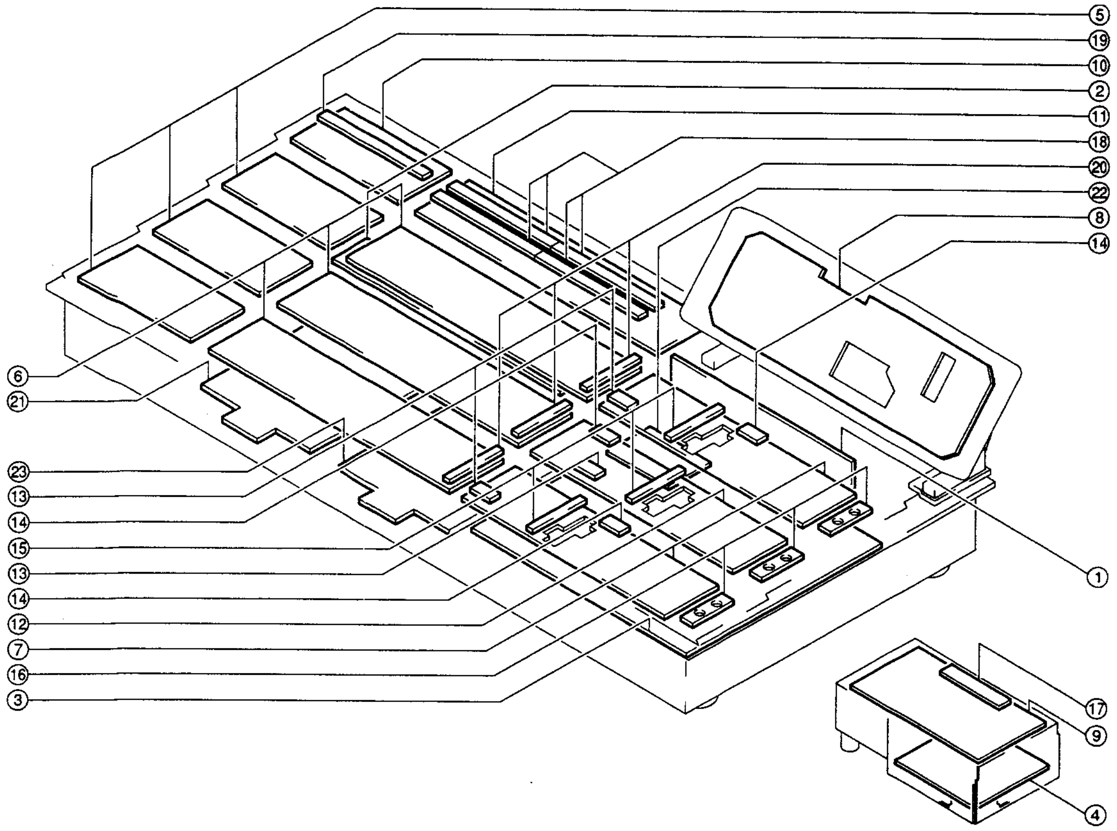
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7023
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	KY-318A	Switch Board	
5	KY-318C	Switch Board	
6	KY-319A	Switch Board	
7	KY-319C	Switch Board	
8	KY-320	Switch Board	
9	KY-321	Switch Board	
10	KY-322	Switch Board	
11	KY-323	Switch Board	
12	KY-324	Switch Board	
13	KY-331	Switch Board	
14	KY-332	Switch Board	
15	LE-142	LED Board	
16	LE-143	LED Board	
17	LE-144	LED Board	
18	LE-145	LED Board	
19	LE-146	LED Board	
20	LE-147	LED Board	
21	LE-148	LED Board	
22	LE-150	LED Board	
23	PS-403	DC-DC Converter Board	
24	RE-112	Power Supply Board	
25	IF-523	Control Port Expansion Board	BKDS-7001
26	RE-112	Power Supply Board	BKDS-7090

1-9. BKDS-7011R



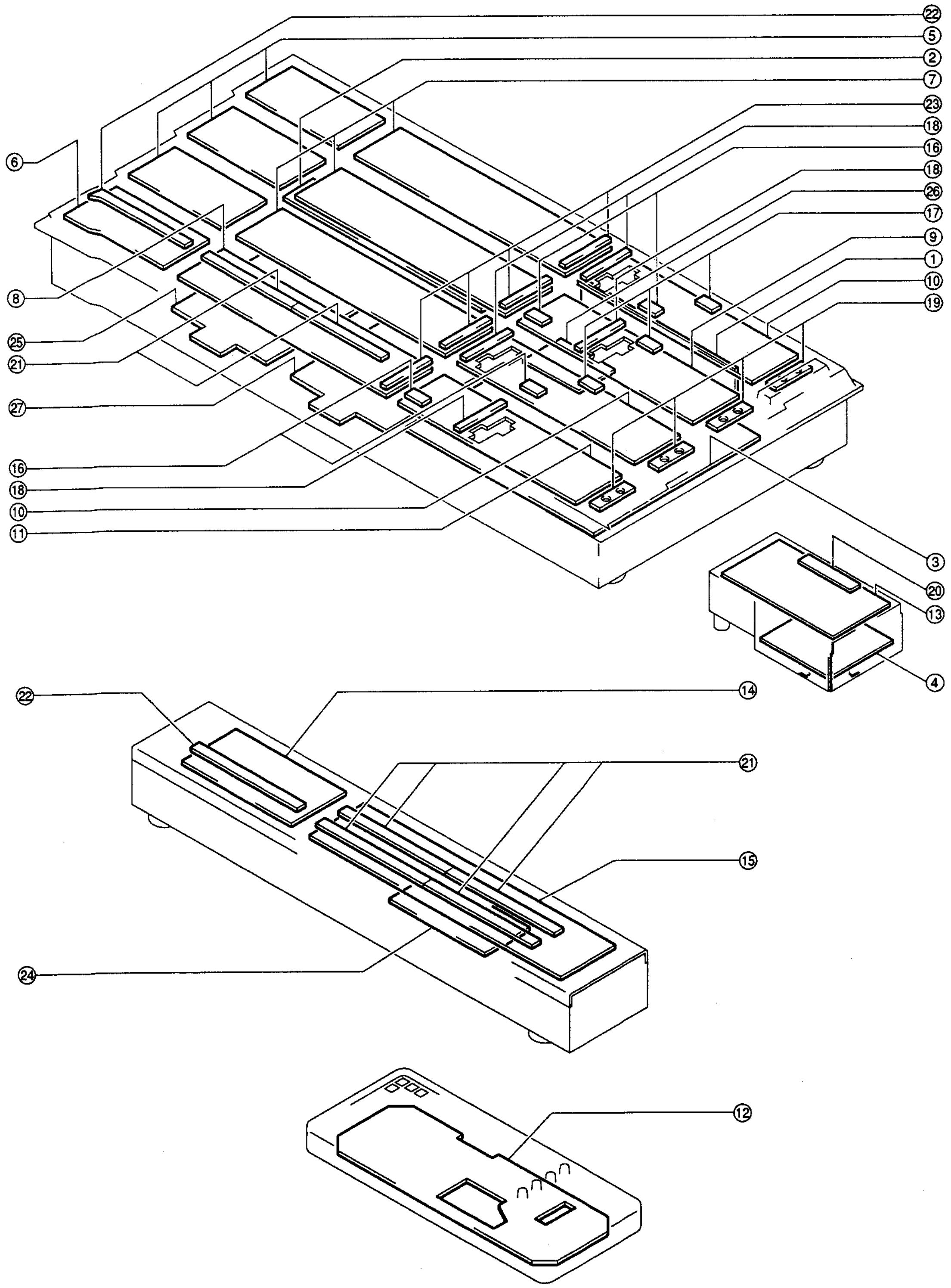
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7011R
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-318A	Switch Board	
6	KY-319A	Switch Board	
7	KY-320	Switch Board	
8	KY-321	Switch Board	
9	KY-323	Switch Board	
10	KY-324	Switch Board	
11	KY-331	Switch Board	
12	KY-332	Switch Board	
13	LE-142	LED Board	
14	LE-143	LED Board	
15	LE-144	LED Board	
16	LE-145	LED Board	
17	LE-146	LED Board	
18	LE-147	LED Board	
19	LE-148	LED Board	
20	LE-150	LED Board	
21	RE-112	Power Supply Board	
22	IF-523	Control Port Expansion Board	BKDS-7001
23	RE-112	Power Supply Board	BKDS-7090

1-10. BKDS-7012R



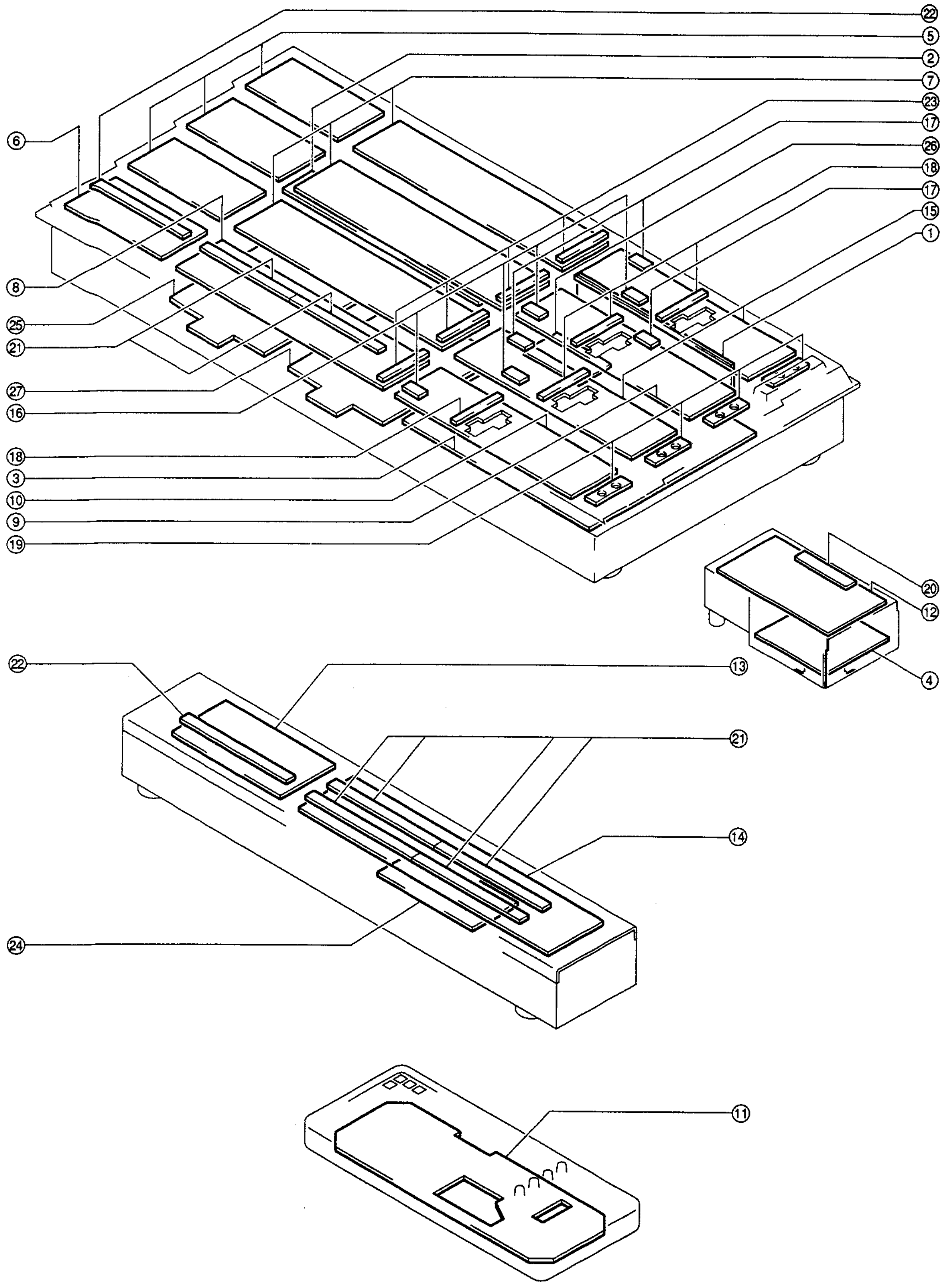
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7012R
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-318B	Switch Board	
6	KY-319B	Switch Board	
7	KY-320	Switch Board	
8	KY-323	Switch Board	
9	KY-324	Switch Board	
10	KY-331	Switch Board	
11	KY-332	Switch Board	
12	KY-367	Switch Board	
13	LE-142	LED Board	
14	LE-143	LED Board	
15	LE-144	LED Board	
16	LE-145	LED Board	
17	LE-146	LED Board	
18	LE-147	LED Board	
19	LE-148	LED Board	
20	LE-150	LED Board	
21	RE-112	Power Supply Board	
22	IF-523	Control Port Expansion Board	BKDS-7001
23	RE-112	Power Supply Board	BKDS-7090

1-11. BKDS-7021R



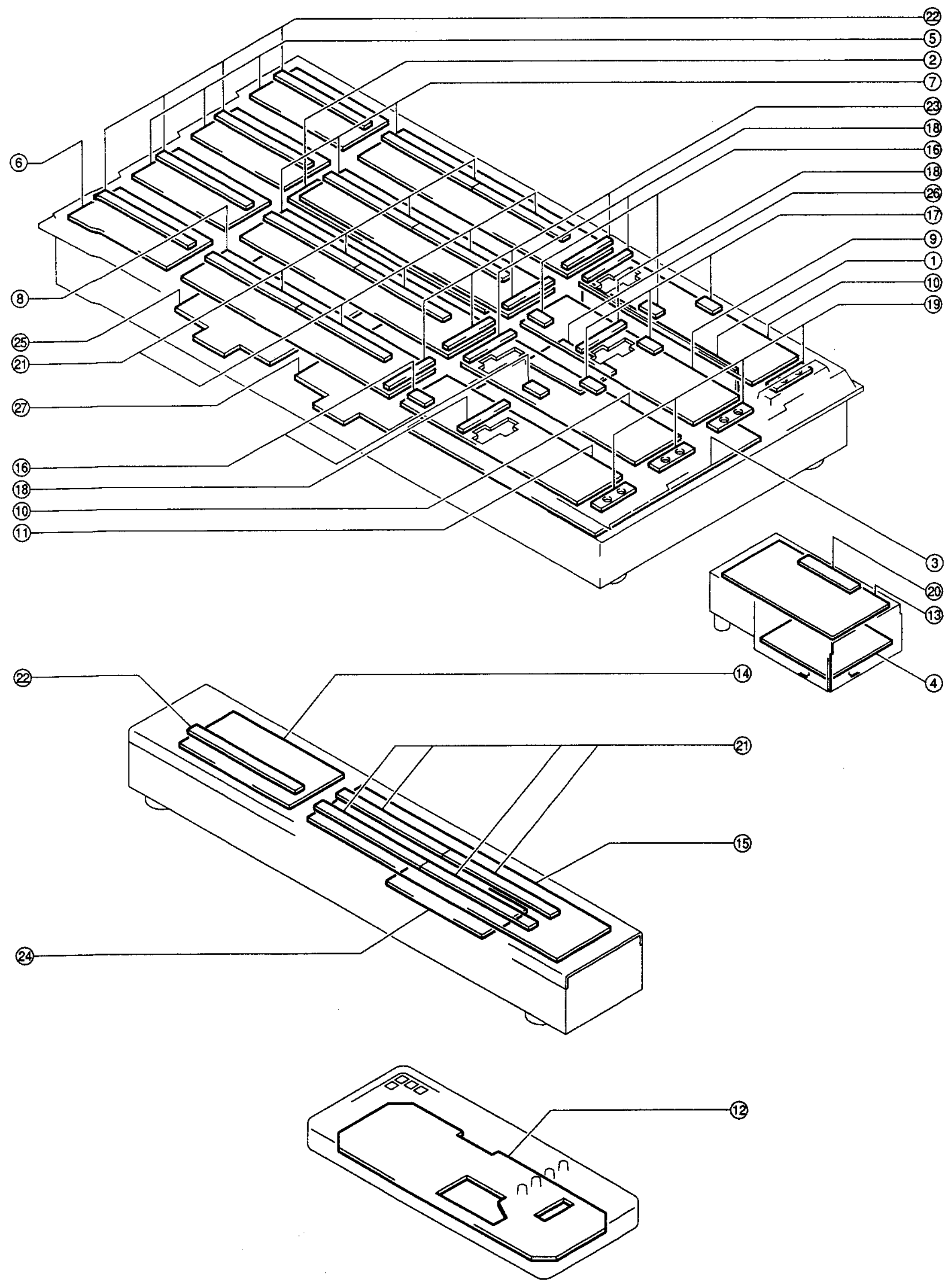
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7021R
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-318B	Switch Board	
6	KY-318C	Switch Board	
7	KY-319B	Switch Board	
8	KY-319C	Switch Board	
9	KY-320	Switch Board	
10	KY-321	Switch Board	
11	KY-322	Switch Board	
12	KY-323	Switch Board	
13	KY-324	Switch Board	
14	KY-331	Switch Board	
15	KY-332	Switch Board	
16	LE-142	LED Board	
17	LE-143	LED Board	
18	LE-144	LED Board	
19	LE-145	LED Board	
20	LE-146	LED Board	
21	LE-147	LED Board	
22	LE-148	LED Board	
23	LE-150	LED Board	
24	PS-403	DC-DC Converter Board	
25	RE-112	Power Supply Board	
26	IF-523	Control Port Expansion Board	BKDS-7001
27	RE-112	Power Supply Board	BKDS-7090

1-12. BKDS-7022R



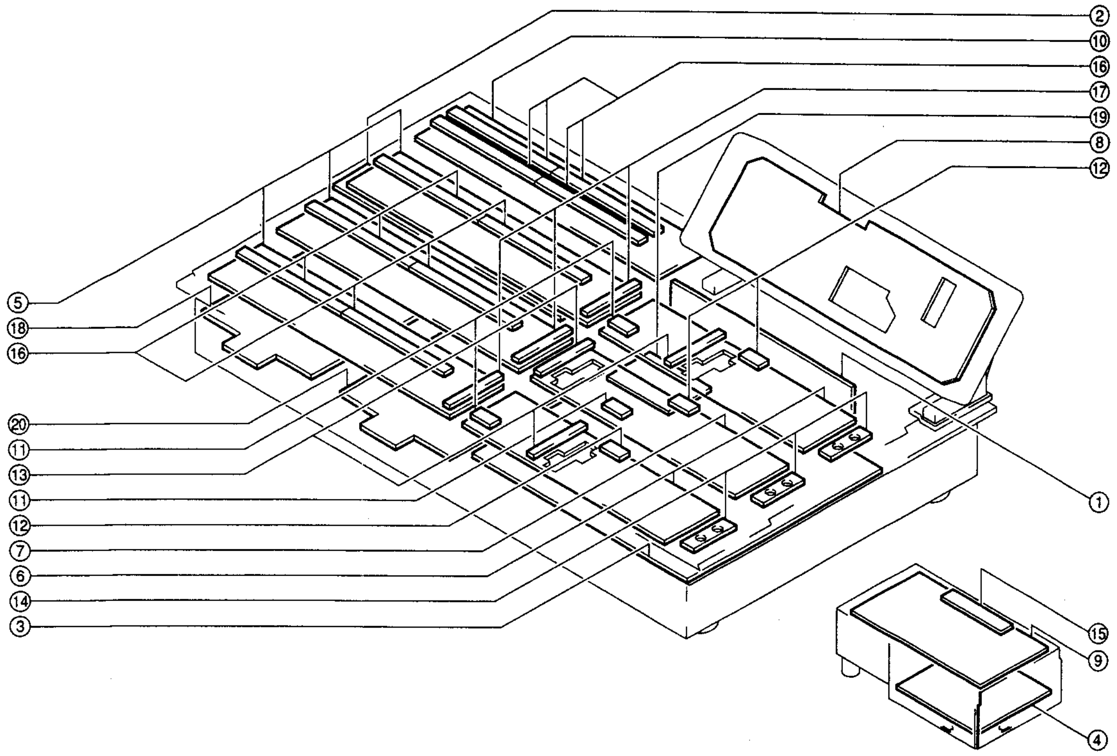
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7022R
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-318B	Switch Board	
6	KY-318C	Switch Board	
7	KY-319B	Switch Board	
8	KY-319C	Switch Board	
9	KY-320	Switch Board	
10	KY-322	Switch Board	
11	KY-323	Switch Board	
12	KY-324	Switch Board	
13	KY-331	Switch Board	
14	KY-332	Switch Board	
15	KY-367	Switch Board	
16	LE-142	LED Board	
17	LE-143	LED Board	
18	LE-144	LED Board	
19	LE-145	LED Board	
20	LE-146	LED Board	
21	LE-147	LED Board	
22	LE-148	LED Board	
23	LE-150	LED Board	
24	PS-403	DC-DC Converter Board	
25	RE-112	Power Supply Board	
26	IF-523	Control Port Expansion Board	BKDS-7001
27	RE-112	Power Supply Board	BKDS-7090

1-13. BKDS-7023R



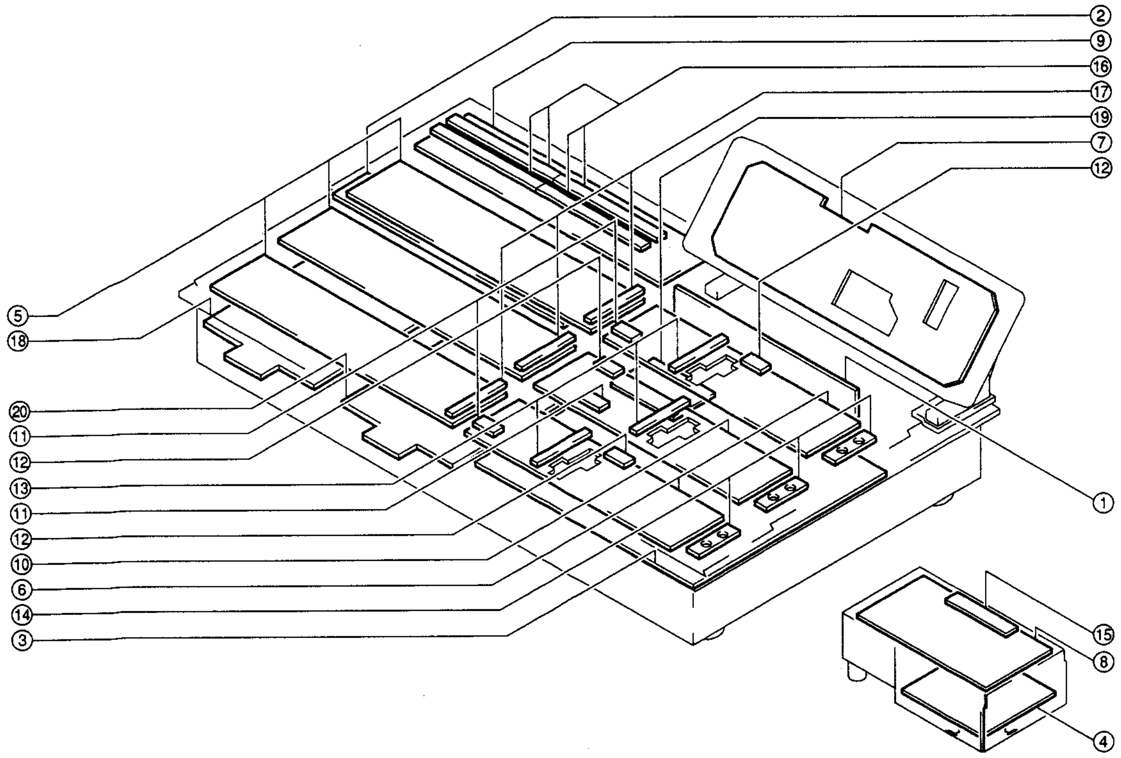
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7023R
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-318A	Switch Board	
6	KY-318C	Switch Board	
7	KY-319A	Switch Board	
8	KY-319C	Switch Board	
9	KY-320	Switch Board	
10	KY-321	Switch Board	
11	KY-322	Switch Board	
12	KY-323	Switch Board	
13	KY-324	Switch Board	
14	KY-331	Switch Board	
15	KY-332	Switch Board	
16	LE-142	LED Board	
17	LE-143	LED Board	
18	LE-144	LED Board	
19	LE-145	LED Board	
20	LE-146	LED Board	
21	LE-147	LED Board	
22	LE-148	LED Board	
23	LE-150	LED Board	
24	PS-403	DC-DC Converter Board	
25	RE-112	Power Supply Board	
26	IF-523	Control Port Expansion Board	BKDS-7001
27	RE-112	Power Supply Board	BKDS-7090

1-14. BKDS-7011LR



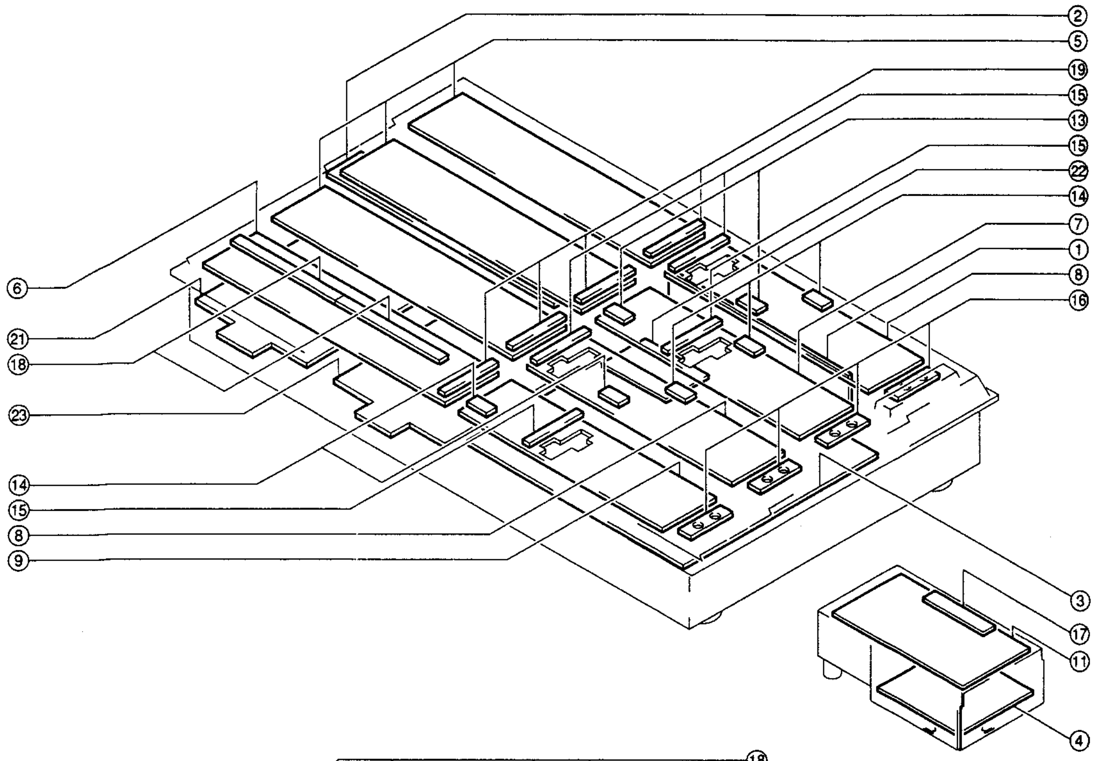
No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7011LR
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-319A	Switch Board	
6	KY-320	Switch Board	
7	KY-321	Switch Board	
8	KY-323	Switch Board	
9	KY-324	Switch Board	
10	KY-332	Switch Board	
11	LE-142	LED Board	
12	LE-143	LED Board	
13	LE-144	LED Board	
14	LE-145	LED Board	
15	LE-146	LED Board	
16	LE-147	LED Board	
17	LE-150	LED Board	
18	RE-112	Power Supply Board	
19	IF-523	Control Port Expansion Board	BKDS-7001
20	RE-112	Power Supply Board	BKDS-7090

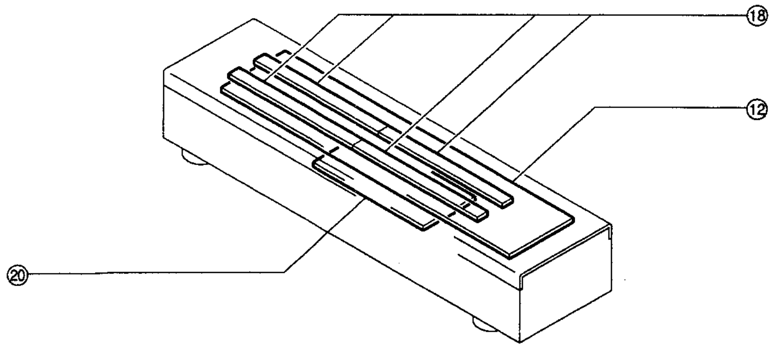
1-15. BKDS-7012LR

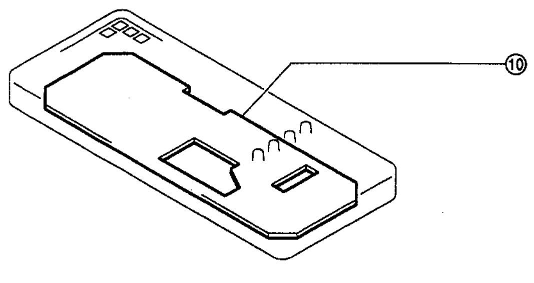


No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7012LR
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-319B	Switch Board	
6	KY-320	Switch Board	
7	KY-323	Switch Board	
8	KY-324	Switch Board	
9	KY-332	Switch Board	
10	KY-367	Switch Board	
11	LE-142	LED Board	
12	LE-143	LED Board	
13	LE-144	LED Board	
14	LE-145	LED Board	
15	LE-146	LED Board	
16	LE-147	LED Board	
17	LE-150	LED Board	
18	RE-112	Power Supply Board	
19	IF-523	Control Port Expansion Board	BKDS-7001
20	RE-112	Power Supply Board	BKDS-7090

1-16. BKDS-7021LR

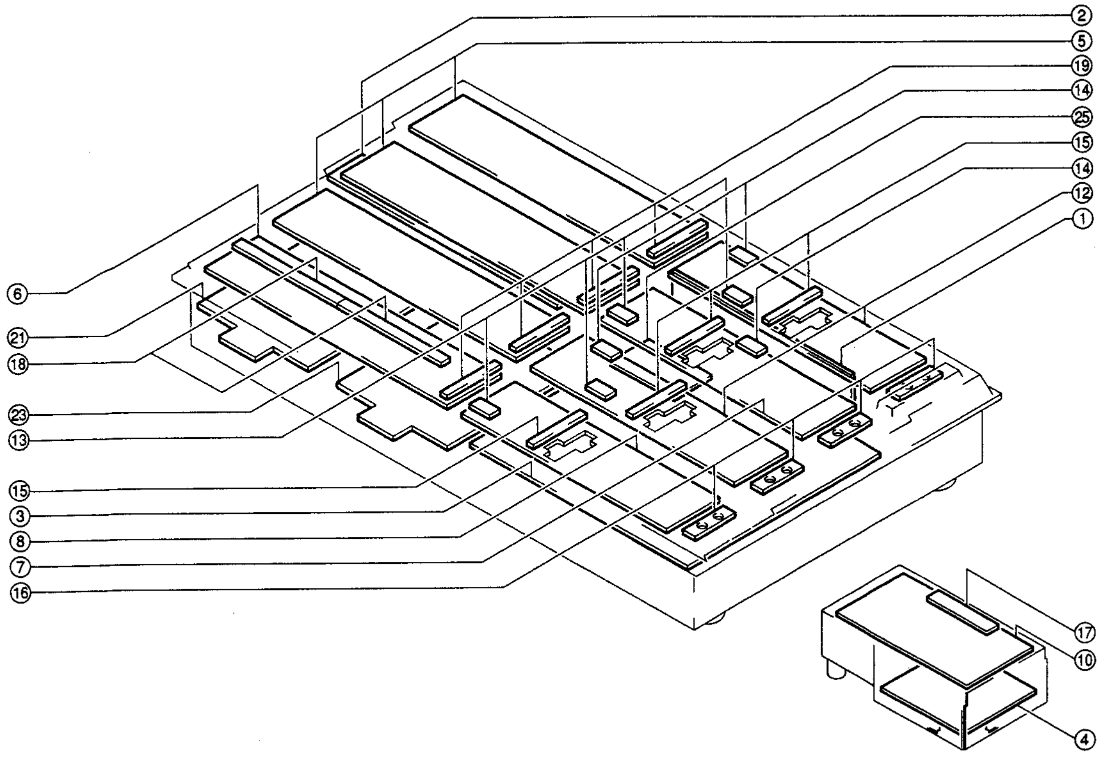


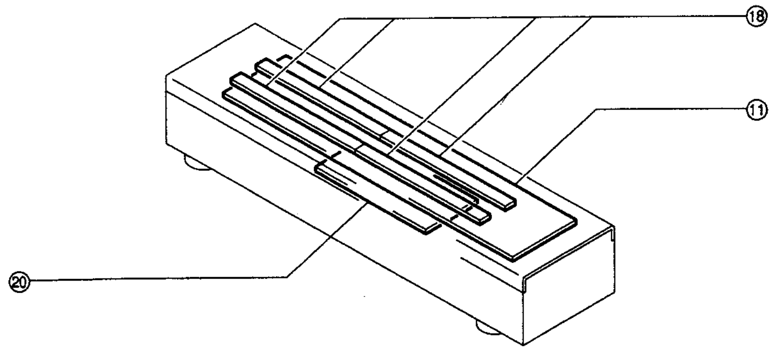


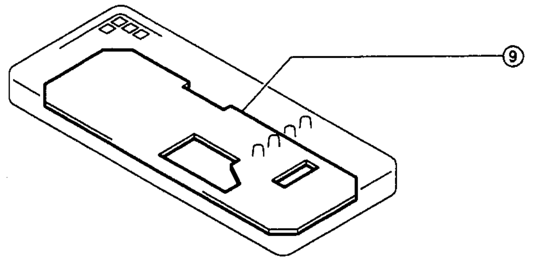


No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7021LR
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-319B	Switch Board	
6	KY-319C	Switch Board	
7	KY-320	Switch Board	
8	KY-321	Switch Board	
9	KY-322	Switch Board	
10	KY-323	Switch Board	
11	KY-324	Switch Board	
12	KY-332	Switch Board	
13	LE-142	LED Board	
14	LE-143	LED Board	
15	LE-144	LED Board	
16	LE-145	LED Board	
17	LE-146	LED Board	
18	LE-147	LED Board	
19	LE-150	LED Board	
20	PS-403	DC-DC Converter Board	
21	RE-112	Power Supply Board	
22	IF-523	Control Port Expansion Board	BKDS-7001
23	RE-112	Power Supply Board	BKDS-7090

1-17. BKDS-7022LR

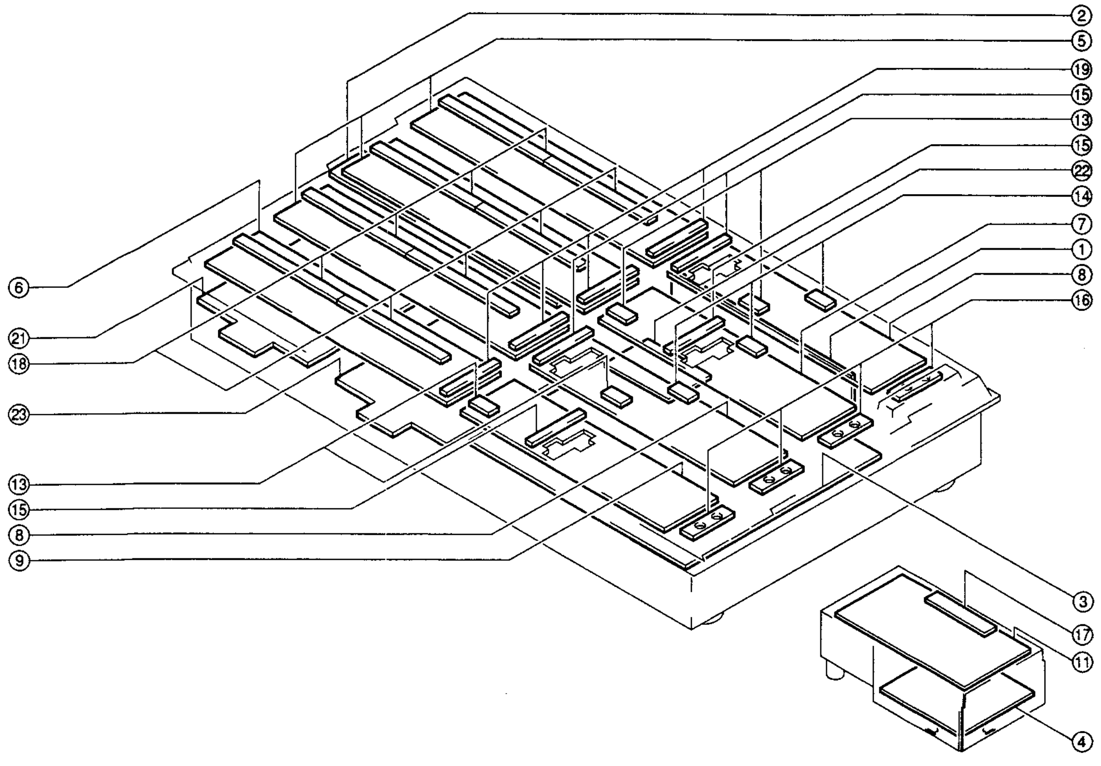


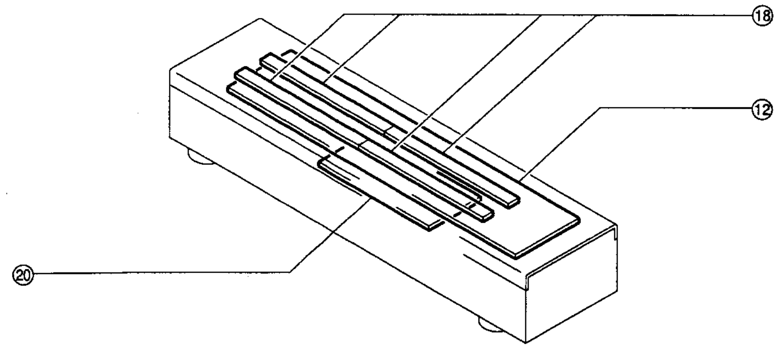


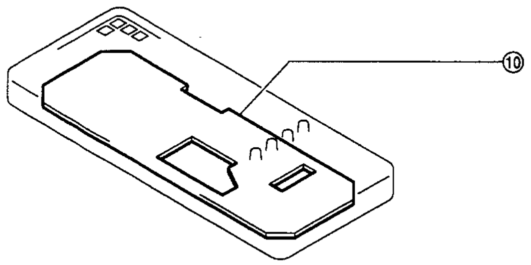


No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7022LR
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-319B	Switch Board	
6	KY-319C	Switch Board	
7	KY-320	Switch Board	
8	KY-322	Switch Board	
9	KY-323	Switch Board	
10	KY-324	Switch Board	
11	KY-332	Switch Board	
12	KY-367	Switch Board	
13	LE-142	LED Board	
14	LE-143	LED Board	
15	LE-144	LED Board	
16	LE-145	LED Board	
17	LE-146	LED Board	
18	LE-147	LED Board	
19	LE-150	LED Board	
20	PS-403	DC-DC Converter Board	
21	RE-112	Power Supply Board	
22	IF-523	Control Port Expansion Board	BKDS-7001
23	RE-112	Power Supply Board	BKDS-7090

1-18. BKDS-7023LR



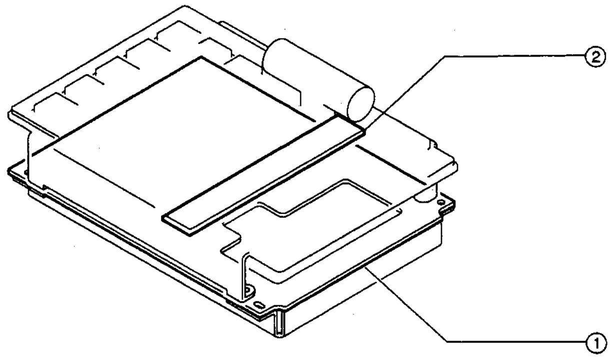




No.	Board name	Circuit function	Model name
1	CN-1143	Connector Board	BKDS-7023LR
2	CN-1148	Connector Board	
3	CPU-191	System Control Board	
4	IF-629	Interface Board	
5	KY-319A	Switch Board	
6	KY-319C	Switch Board	
7	KY-320	Switch Board	
8	KY-321	Switch Board	
9	KY-322	Switch Board	
10	KY-323	Switch Board	
11	KY-324	Switch Board	
12	KY-332	Switch Board	
13	LE-142	LED Board	
14	LE-143	LED Board	
15	LE-144	LED Board	
16	LE-145	LED Board	
17	LE-146	LED Board	
18	LE-147	LED Board	
19	LE-150	LED Board	
20	PS-403	DC-DC Converter Board	
21	RE-112	Power Supply Board	
22	IF-523	Control Port Expansion Board	BKDS-7001
23	RE-112	Power Supply Board	BKDS-7090

1-19. BKDS-7030/7031/7075

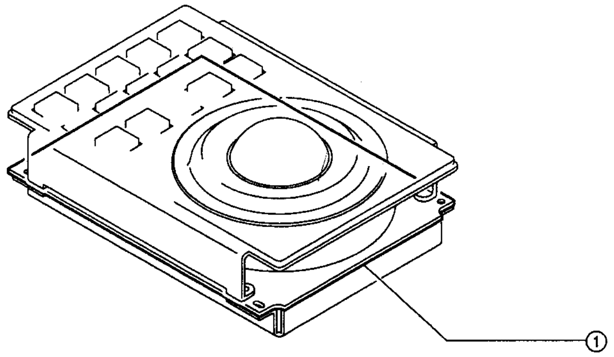
BKDS-7030



BKDS-7030

No.	Board name	Circuit function	Model name
1	KY-328	Switch Board	BKDS-7030
2	LE-144	LED Board	

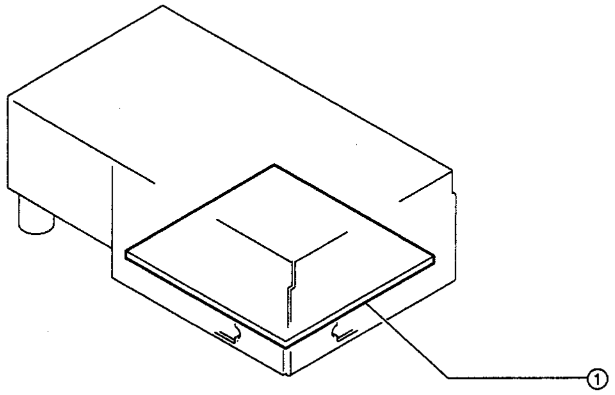
BKDS-7031



BKDS-7031

No.	Board name	Circuit function	Model name
1	KY-329	Switch Board	BKDS-7031

BKDS-7075

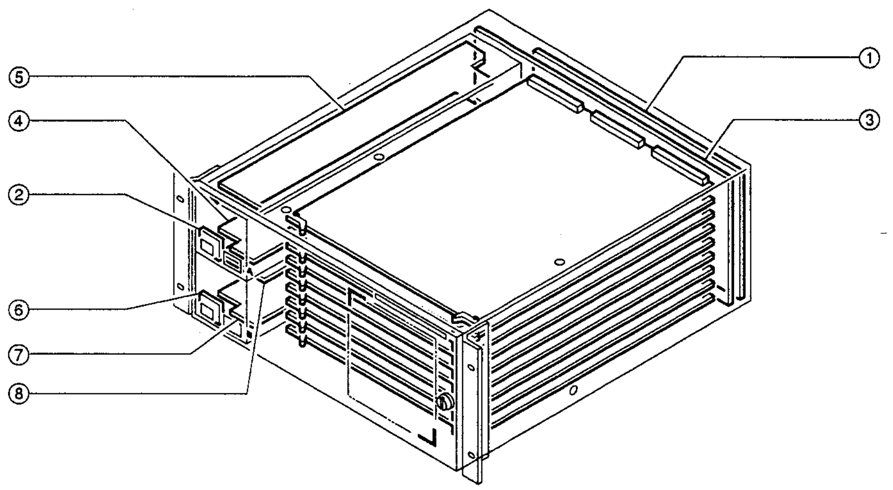


BKDS-7075

No.	Board name	Circuit function	Model name
1	IF-629	Interface Board	BKDS-7075

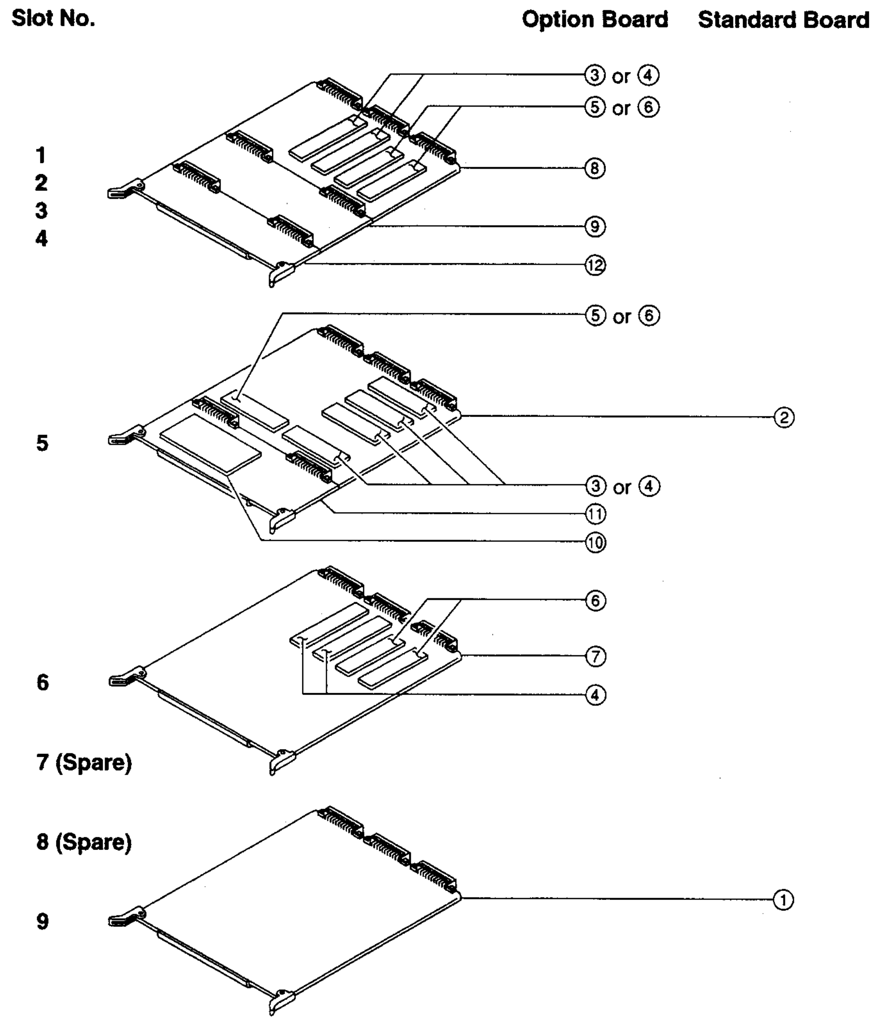
1-20. DMK-7000

1. Except Plug-in Boards



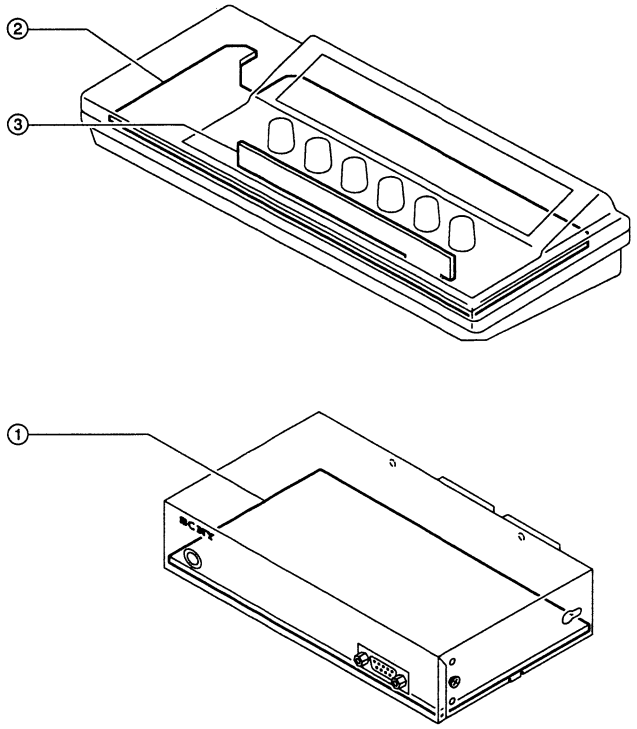
No.	Board name	Circuit function	Model name
1	CN-1171	Connector Board	DMK-7000
2	LE-156	LED Board	
3	MB-622	Mother Board	
4	RE-114	Power Supply AC-DC Board	
5	RE-115B	Power Supply DC-DC Board	
6	LE-156	LED Board	BKDS-7691
7	RE-114	Power Supply AC-DC Board	
8	RE-115B	Power Supply DC-DC Board	

2. Plug-in Boards


Slot No.
Option Board
Standard Board
1
2
3
4
③ or ④
⑤ or ⑥
⑧
⑨
⑫
5
⑤ or ⑥
②
③ or ④
⑪
⑩
6
⑥
⑦
④
7 (Spare)
8 (Spare)
9
①

No.	Board name	Circuit function	Model name
1	CPU-192	System Control Board	DMK-7000
2	XPT-8	Cross Point Board	
3	ADI-3	Analog Composite Input Board	BKDS-7111
4	DI-24	Serial Digital Input Board	BKDS-7112
5	DA-94	Analog Composite Output Board	BKDS-7161
6	SD-34	Serial Digital Output Board	BKDS-7162
7	SDI-9	DME Interface Board	BKDS-7180
8	MIX-24	Linear Keyer Board	BKDS-7300
9	KPC-8	Luminance Keyer/Border Board	BKDS-7320
10	DEC-85	Color Vector Keyer Board	BKDS-7430
11	KPC-10	Luminance Keyer/Border Board	
12	MEM-67	Frame Memory Board	BKDS-7443

1-21. BKDS-7060



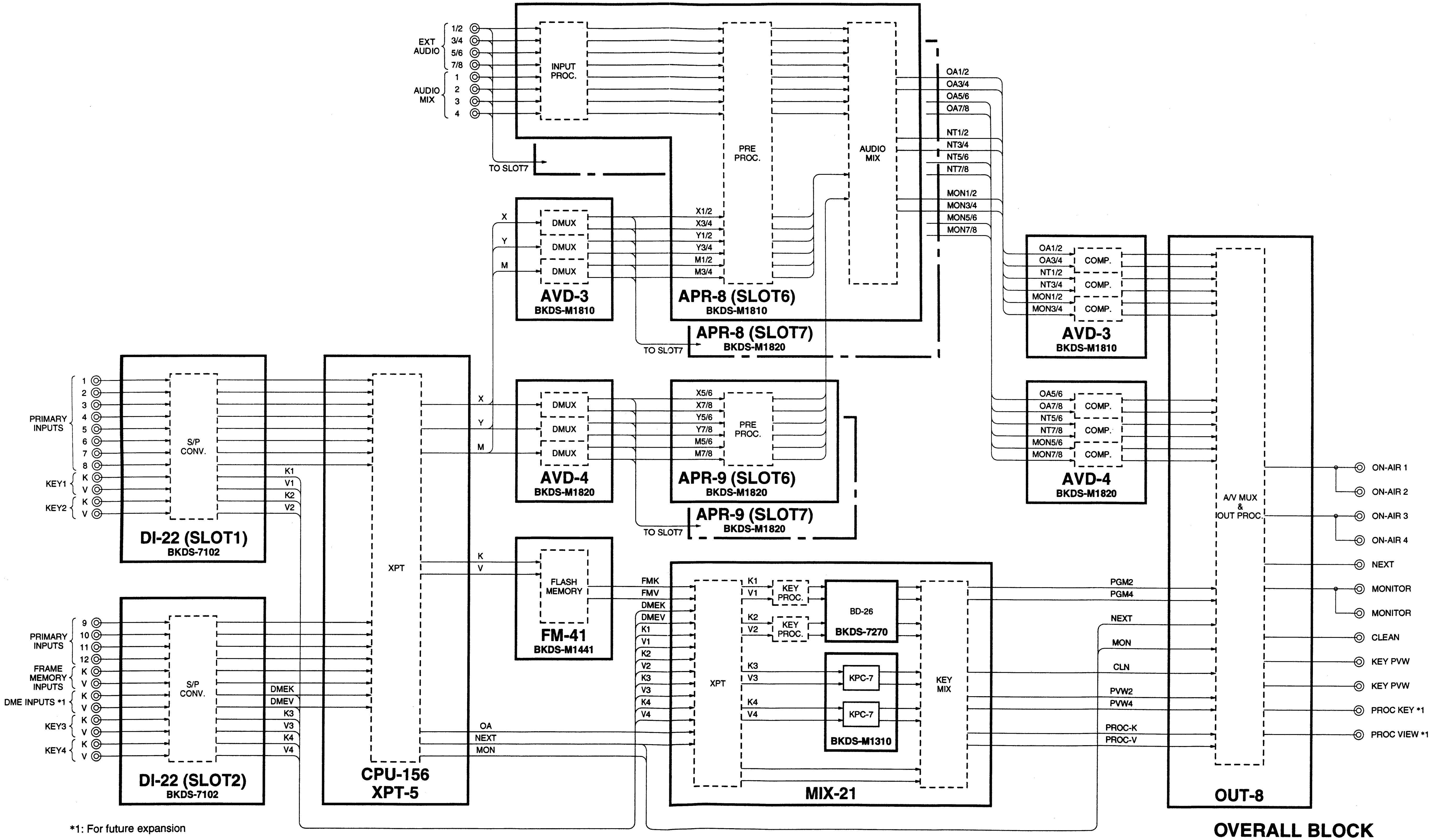
No.	Board name	Circuit function	Model name
1	CN-1295	Connector Board	BKDS-7060
2	CPU-198	System Control Board	
3	VR-222	Rotary Encoder Board	

Section 2
Overall Block Diagrams & Frame Wirings

DVS-M1000C	Digital Master Switcher	**Page 2-2**
BKDS-M1010	Master Switcher Control Panel	**Page 2-4**
DVS-7000	Digital Video Switcher	**Page 2-8**
BKDS-7011/7012	Type-3D Switcher Control Panel	**Page 2-12**
BKDS-7021/7022/7023	Type-4D Switcher Control Panel	**Page 2-24**
BKDS-701xR/70xLR	Type-3D Switcher Control Panel	**Page 2-37**
BKDS-702xR/702xLR	Type-4D Switcher Control Panel	**Page 2-49**
DMK-7000	Digital Multi Keyer	**Page 2-62**
BKDS-7060	Keyer Remote Control Panel	**Page 2-64**

DVS-M1000C OVERALL

2-1. DVS-M1000C
DVS-M1000C OVERALL BLOCK


EXT AUDIO
1/2
3/4
5/6
7/8
AUDIO MIX
1
2
3
4
INPUT PROC.
PRE PROC.
AUDIO MIX
TO SLOT7
OA1/2
OA3/4
OA5/6
OA7/8
NT1/2
NT3/4
NT5/6
NT7/8
MON1/2
MON3/4
MON5/6
MON7/8
X
Y
M
DMUX
DMUX
DMUX
AVD-3
BKDS-M1810
X1/2
X3/4
Y1/2
Y3/4
M1/2
M3/4
APR-8 (SLOT6)
BKDS-M1810
APR-8 (SLOT7)
BKDS-M1820
TO SLOT7
OA1/2
OA3/4
NT1/2
NT3/4
MON1/2
MON3/4
COMP.
COMP.
COMP.
AVD-3
BKDS-M1810
PRIMARY INPUTS
1
2
3
4
5
6
7
8
KEY1
K
V
KEY2
K
V
S/P CONV.
K1
V1
K2
V2
DI-22 (SLOT1)
BKDS-7102
XPT
X
Y
M
DMUX
DMUX
DMUX
AVD-4
BKDS-M1820
X5/6
X7/8
Y5/6
Y7/8
M5/6
M7/8
PRE PROC.
APR-9 (SLOT6)
BKDS-M1820
APR-9 (SLOT7)
BKDS-M1820
TO SLOT7
OA5/6
OA7/8
NT5/6
NT7/8
MON5/6
MON7/8
COMP.
COMP.
COMP.
AVD-4
BKDS-M1820
A/V MUX & OUT PROC.
ON-AIR 1
ON-AIR 2
ON-AIR 3
ON-AIR 4
NEXT
MONITOR
MONITOR
CLEAN
KEY PVW
KEY PVW
PROC KEY *1
PROC VIEW *1
K
V
FLASH MEMORY
FM-41
BKDS-M1441
FMK
FMV
DMEK
DMEV
K1
V1
K2
V2
K3
V3
K4
V4
XPT
K1
V1
KEY PROC.
K2
V2
KEY PROC.
BD-26
BKDS-7270
K3
V3
K4
V4
KPC-7
KPC-7
BKDS-M1310
KEY MIX
MIX-21
PGM2
PGM4
NEXT
MON
CLN
PVW2
PVW4
PROC-K
PROC-V
OUT-8
PRIMARY INPUTS
9
10
11
12
FRAME MEMORY INPUTS
K
V
DME INPUTS *1
K
V
KEY3
K
V
KEY4
K
V
S/P CONV.
DMEK
DMEV
K3
V3
K4
V4
DI-22 (SLOT2)
BKDS-7102
OA
NEXT
MON
CPU-156
XPT-5

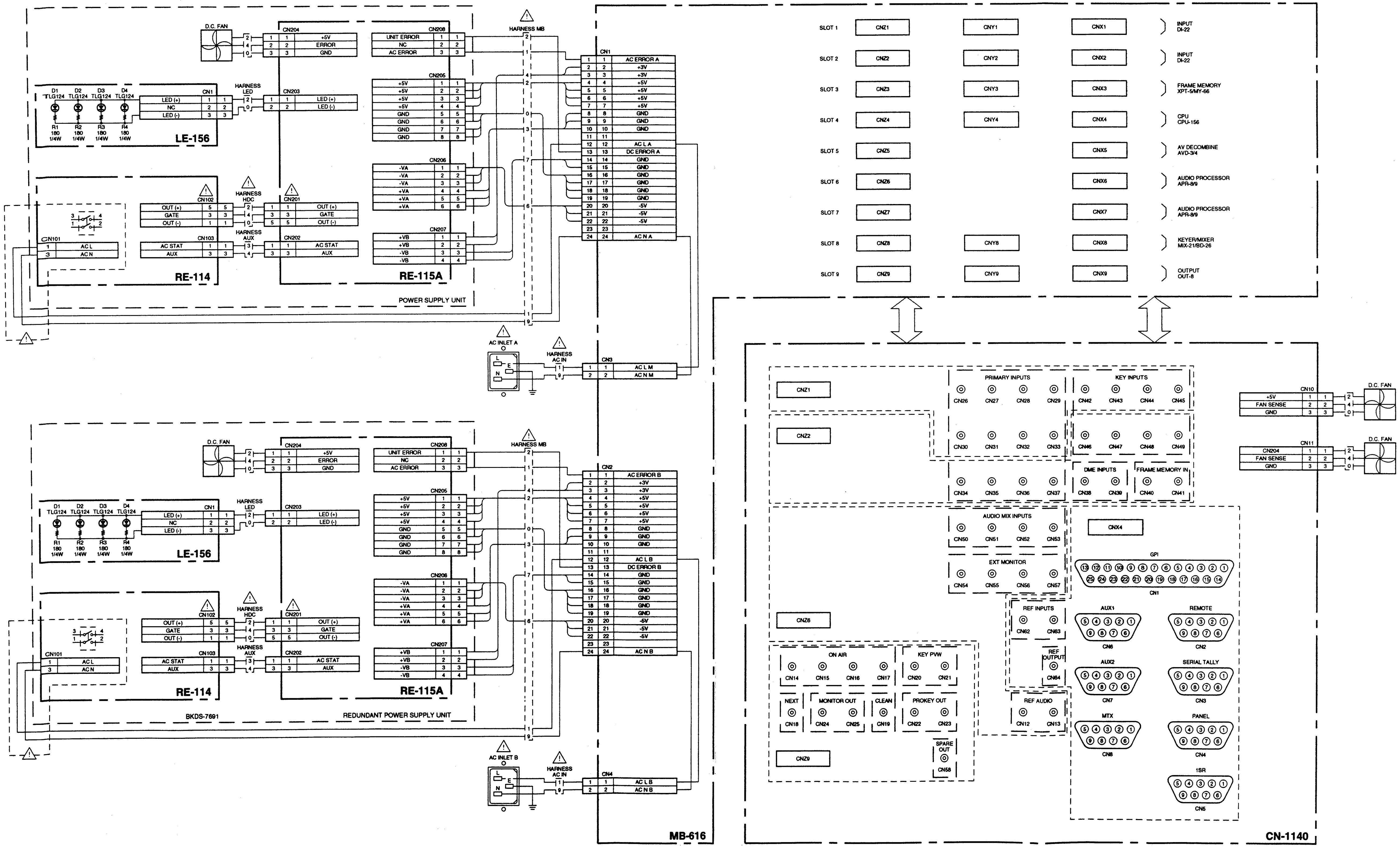
*1: For future expansion

OVERALL BLOCK
DVS-M1000C
BKDS-7102/7270/M1310/M1441/M1810/M1820

2-2

DVS-M1000C FRAME

DVS-M1000C FRAME WIRING

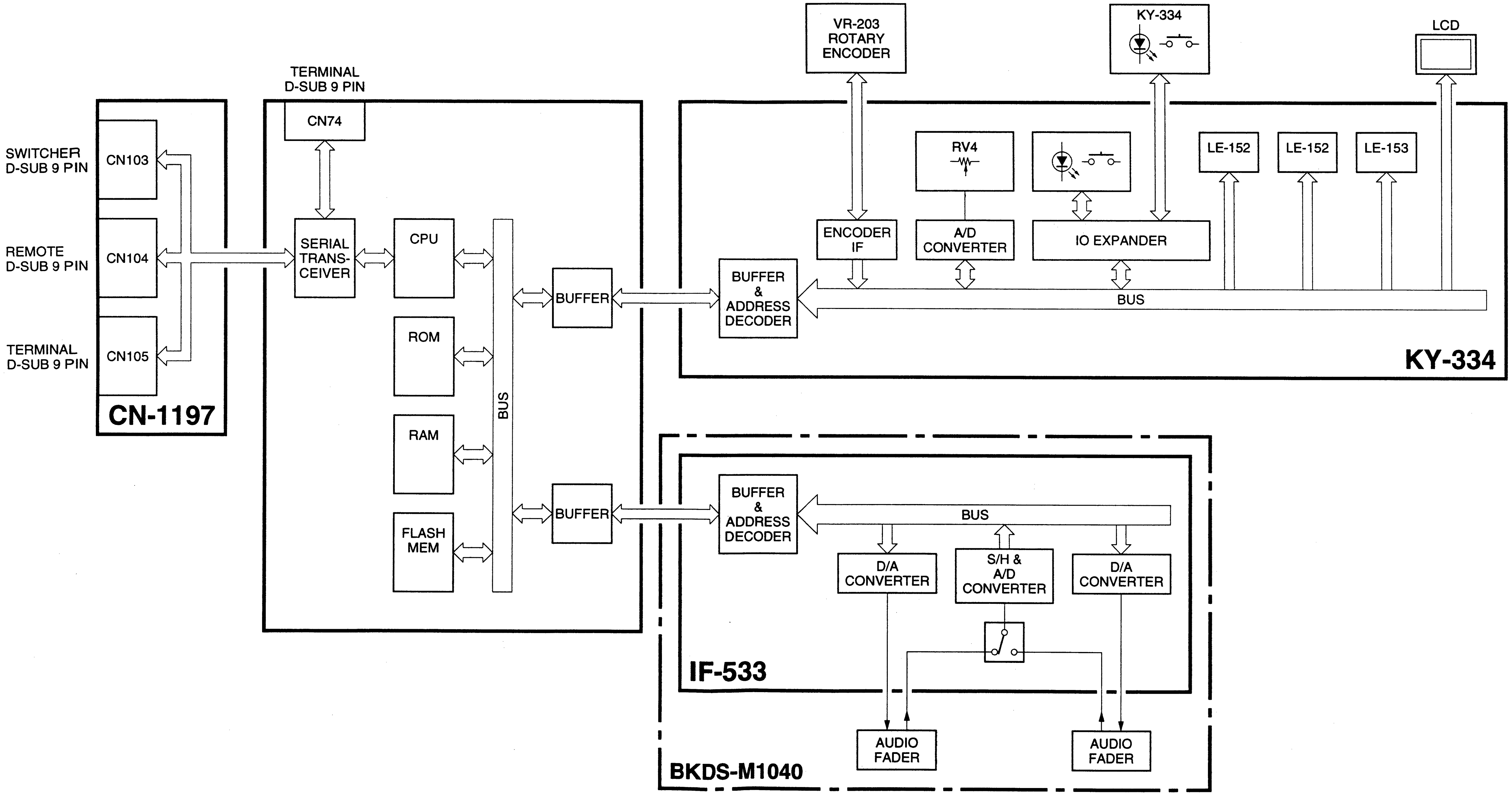

D.C. FAN
CN204
+5V
ERROR
GND
CN208
UNIT ERROR
NC
AC ERROR
CN205
CN206
CN207
+5V
GND
-VA
+VA
+VB
-VB
HARNESS LED
CN203
LED (+)
LED (-)
NC
CN1
D1 D2 D3 D4
TLG124
R1 R2 R3 R4
180
1/4W
LE-156
HARNESS HDC
CN102
CN201
OUT (+)
GATE
OUT (-)
HARNESS AUX
CN103
CN202
AC STAT
AUX
CN101
AC L
AC N
RE-114
RE-115A
POWER SUPPLY UNIT
BKDS-7691
REDUNDANT POWER SUPPLY UNIT
HARNESS MB
CN1
AC ERROR A
+3V
DC ERROR A
AC L A
AC N A
-5V
CN2
AC ERROR B
DC ERROR B
AC L B
AC N B
AC INLET A
AC INLET B
HARNESS AC IN
CN3
AC L M
AC N M
CN4
MB-616
SLOT 1
SLOT 2
SLOT 3
SLOT 4
SLOT 5
SLOT 6
SLOT 7
SLOT 8
SLOT 9
CNZ1
CNZ2
CNZ3
CNZ4
CNZ5
CNZ6
CNZ7
CNZ8
CNZ9
CNY1
CNY2
CNY3
CNY4
CNY8
CNY9
CNX1
CNX2
CNX3
CNX4
CNX5
CNX6
CNX7
CNX8
CNX9
INPUT DI-22
INPUT DI-22
FRAME MEMORY XPT-5/MY-66
CPU CPU-156
AV DECOMBINE AVD-3/4
AUDIO PROCESSOR APR-8/9
AUDIO PROCESSOR APR-8/9
KEYER/MIXER MIX-21/BD-26
OUTPUT OUT-8
PRIMARY INPUTS
CN26 CN27 CN28 CN29
CN30 CN31 CN32 CN33
KEY INPUTS
CN42 CN43 CN44 CN45
CN46 CN47 CN48 CN49
DME INPUTS
CN34 CN35 CN36 CN37
CN38 CN39
FRAME MEMORY IN
CN40 CN41
AUDIO MIX INPUTS
CN50 CN51 CN52 CN53
EXT MONITOR
CN54 CN55 CN56 CN57
GPI
CN1
REF INPUTS
CN62 CN63
REF OUTPUT
CN64
REF AUDIO
CN12 CN13
AUX1
CN6
AUX2
CN7
MTX
CN8
REMOTE
CN2
SERIAL TALLY
CN3
PANEL
CN4
ISR
CN5
ON AIR
CN14 CN15 CN16 CN17
KEY PVW
CN20 CN21
NEXT
CN18
MONITOR OUT
CN24 CN25
CLEAN
CN19
PROKEY OUT
CN22 CN23
SPARE OUT
CN58
CN10
CN11
FAN SENSE
CN-1140

FRAME WIRING

DVS-M1000C
BKDS-7691

2-3

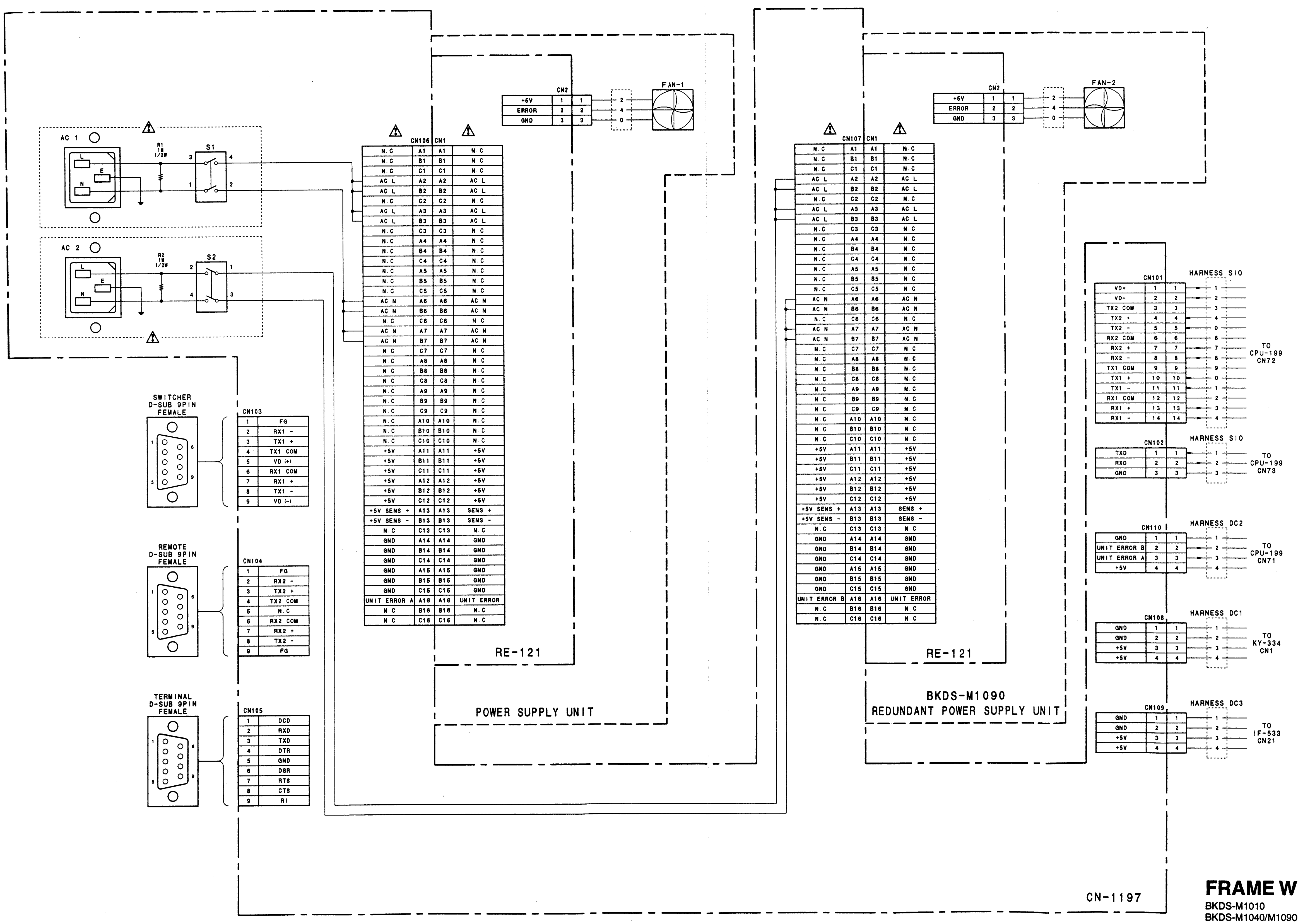
2-2. BKDS-M1010
BKDS-M1010 OVERALL BLOCK


SWITCHER D-SUB 9 PIN
REMOTE D-SUB 9 PIN
TERMINAL D-SUB 9 PIN
CN103
CN104
CN105
CN-1197
TERMINAL D-SUB 9 PIN
CN74
SERIAL TRANS-CEIVER
CPU
ROM
RAM
FLASH MEM
BUS
BUFFER
BUFFER
VR-203 ROTARY ENCODER
KY-334
LCD
RV4
LE-152
LE-152
LE-153
ENCODER IF
A/D CONVERTER
IO EXPANDER
BUFFER & ADDRESS DECODER
BUS
KY-334
BUFFER & ADDRESS DECODER
BUS
D/A CONVERTER
S/H & A/D CONVERTER
D/A CONVERTER
IF-533
AUDIO FADER
AUDIO FADER
BKDS-M1040

OVERALL BLOCK
BKDS-M1010
BKDS-M1040

BKDS-M1010 FRAME (1/3)

BKDS-M1010 FRAME WIRING


AC 1
L
E
N
R1
1M
1/2W
S1
3
4
1
2
AC 2
R2
1M
1/2W
S2
2
1
4
3
FAN-1
FAN-2
2
4
0
RE-121
POWER SUPPLY UNIT
BKDS-M1090
REDUNDANT POWER SUPPLY UNIT
SWITCHER
D-SUB 9PIN
FEMALE
REMOTE
D-SUB 9PIN
FEMALE
TERMINAL
D-SUB 9PIN
FEMALE
1
5
6
9
HARNESS SIO
TO
CPU-199
CN72
HARNESS SIO
TO
CPU-199
CN73
HARNESS DC2
TO
CPU-199
CN71
HARNESS DC1
TO
KY-334
CN1
HARNESS DC3
TO
IF-533
CN21
CN-1197

	CN2		
+5V	1	1	2
ERROR	2	2	4
GND	3	3	0

	CN106	CN1	
N.C	A1	A1	N.C
N.C	B1	B1	N.C
N.C	C1	C1	N.C
AC L	A2	A2	AC L
AC L	B2	B2	AC L
N.C	C2	C2	N.C
AC L	A3	A3	AC L
AC L	B3	B3	AC L
N.C	C3	C3	N.C
N.C	A4	A4	N.C
N.C	B4	B4	N.C
N.C	C4	C4	N.C
N.C	A5	A5	N.C
N.C	B5	B5	N.C
N.C	C5	C5	N.C
AC N	A6	A6	AC N
AC N	B6	B6	AC N
N.C	C6	C6	N.C
AC N	A7	A7	AC N
AC N	B7	B7	AC N
N.C	C7	C7	N C
N.C	A8	A8	N.C
N.C	B8	B8	N.C
N.C	C8	C8	N.C
N.C	A9	A9	N.C
N.C	B9	B9	N.C
N.C	C9	C9	N.C
N.C	A10	A10	N.C
N.C	B10	B10	N.C
N.C	C10	C10	N.C
+5V	A11	A11	+5V
+5V	B11	B11	+5V
+5V	C11	C11	+5V
+5V	A12	A12	+5V
+5V	B12	B12	+5V
+5V	C12	C12	+5V
+5V SENS +	A13	A13	SENS +
+5V SENS -	B13	B13	SENS -
N.C	C13	C13	N.C
GND	A14	A14	GND
GND	B14	B14	GND
GND	C14	C14	GND
GND	A15	A15	GND
GND	B15	B15	GND
GND	C15	C15	GND
UNIT ERROR A	A16	A16	UNIT ERROR
N.C	B16	B16	N.C
N.C	C16	C16	N.C

	CN107	CN1	
N.C	A1	A1	N.C
N.C	B1	B1	N.C
N.C	C1	C1	N.C
AC L	A2	A2	AC L
AC L	B2	B2	AC L
N.C	C2	C2	N.C
AC L	A3	A3	AC L
AC L	B3	B3	AC L
N.C	C3	C3	N.C
N.C	A4	A4	N.C
N.C	B4	B4	N.C
N.C	C4	C4	N.C
N.C	A5	A5	N.C
N.C	B5	B5	N.C
N.C	C5	C5	N.C
AC N	A6	A6	AC N
AC N	B6	B6	AC N
N.C	C6	C6	N.C
AC N	A7	A7	AC N
AC N	B7	B7	AC N
N.C	C7	C7	N.C
N.C	A8	A8	N.C
N.C	B8	B8	N.C
N.C	C8	C8	N.C
N.C	A9	A9	N.C
N.C	B9	B9	N.C
N.C	C9	C9	N.C
N.C	A10	A10	N.C
N.C	B10	B10	N.C
N.C	C10	C10	N.C
+5V	A11	A11	+5V
+5V	B11	B11	+5V
+5V	C11	C11	+5V
+5V	A12	A12	+5V
+5V	B12	B12	+5V
+5V	C12	C12	+5V
+5V SENS +	A13	A13	SENS +
+5V SENS -	B13	B13	SENS -
N.C	C13	C13	N.C
GND	A14	A14	GND
GND	B14	B14	GND
GND	C14	C14	GND
GND	A15	A15	GND
GND	B15	B15	GND
GND	C15	C15	GND
UNIT ERROR B	A16	A16	UNIT ERROR
N.C	B16	B16	N.C
N.C	C16	C16	N.C

CN103	
1	FG
2	RX1 -
3	TX1 +
4	TX1 COM
5	VD (+)
6	RX1 COM
7	RX1 +
8	TX1 -
9	VD (-)

CN104	
1	FG
2	RX2 -
3	TX2 +
4	TX2 COM
5	N.C
6	RX2 COM
7	RX2 +
8	TX2 -
9	FG

CN105	
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

	CN101		HARNESS SIO
VD+	1	1	1
VD-	2	2	2
TX2 COM	3	3	3
TX2 +	4	4	4
TX2 -	5	5	0
RX2 COM	6	6	6
RX2 +	7	7	7
RX2 -	8	8	8
TX1 COM	9	9	9
TX1 +	10	10	0
TX1 -	11	11	1
RX1 COM	12	12	2
RX1 +	13	13	3
RX1 -	14	14	4

	CN102		HARNESS SIO
TXD	1	1	1
RXD	2	2	2
GND	3	3	3

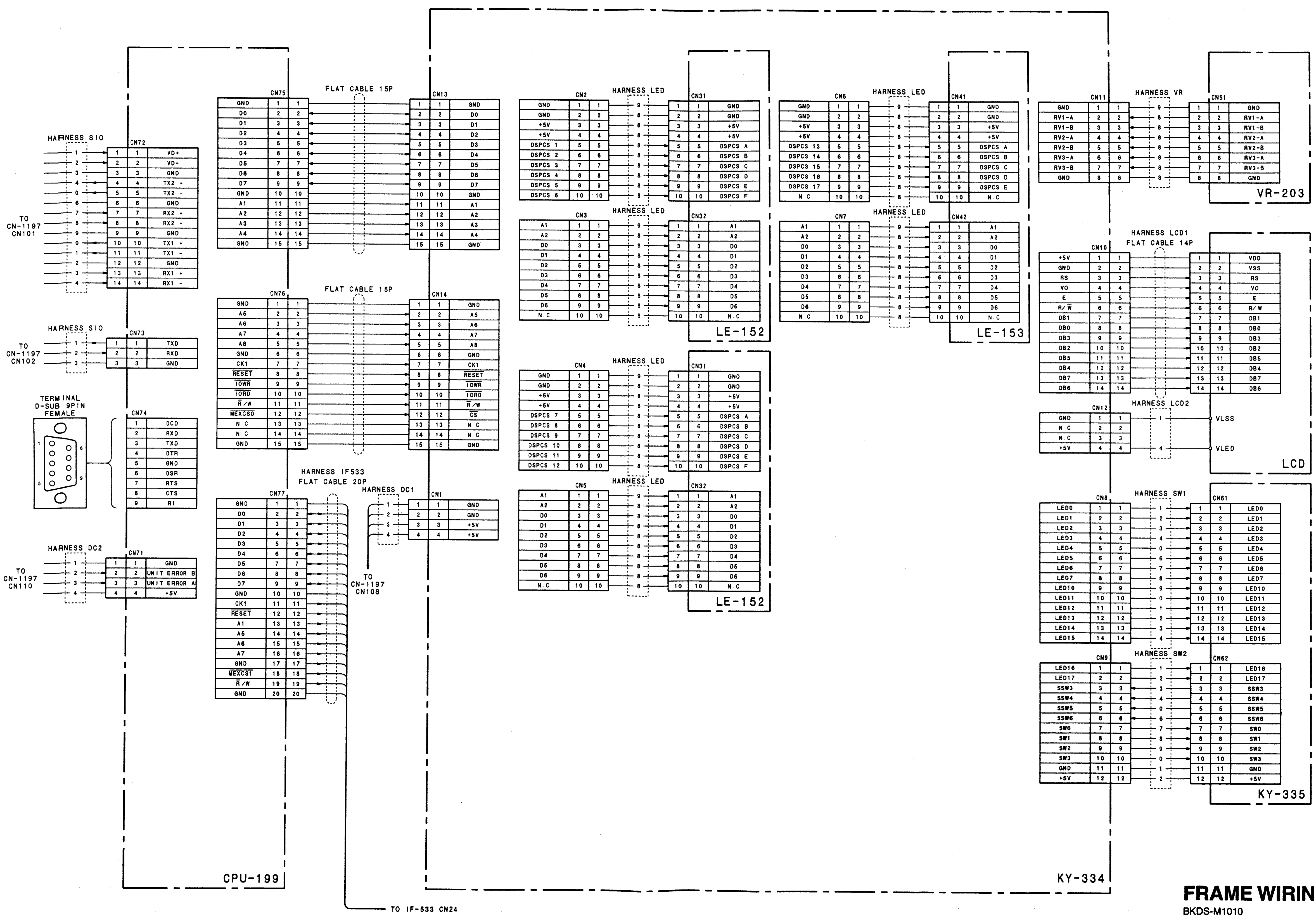
	CN110		HARNESS DC2
GND	1	1	1
UNIT ERROR B	2	2	2
UNIT ERROR A	3	3	3
+5V	4	4	4

	CN108		HARNESS DC1
GND	1	1	1
GND	2	2	2
+5V	3	3	3
+5V	4	4	4

	CN109		HARNESS DC3
GND	1	1	1
GND	2	2	2
+5V	3	3	3
+5V	4	4	4

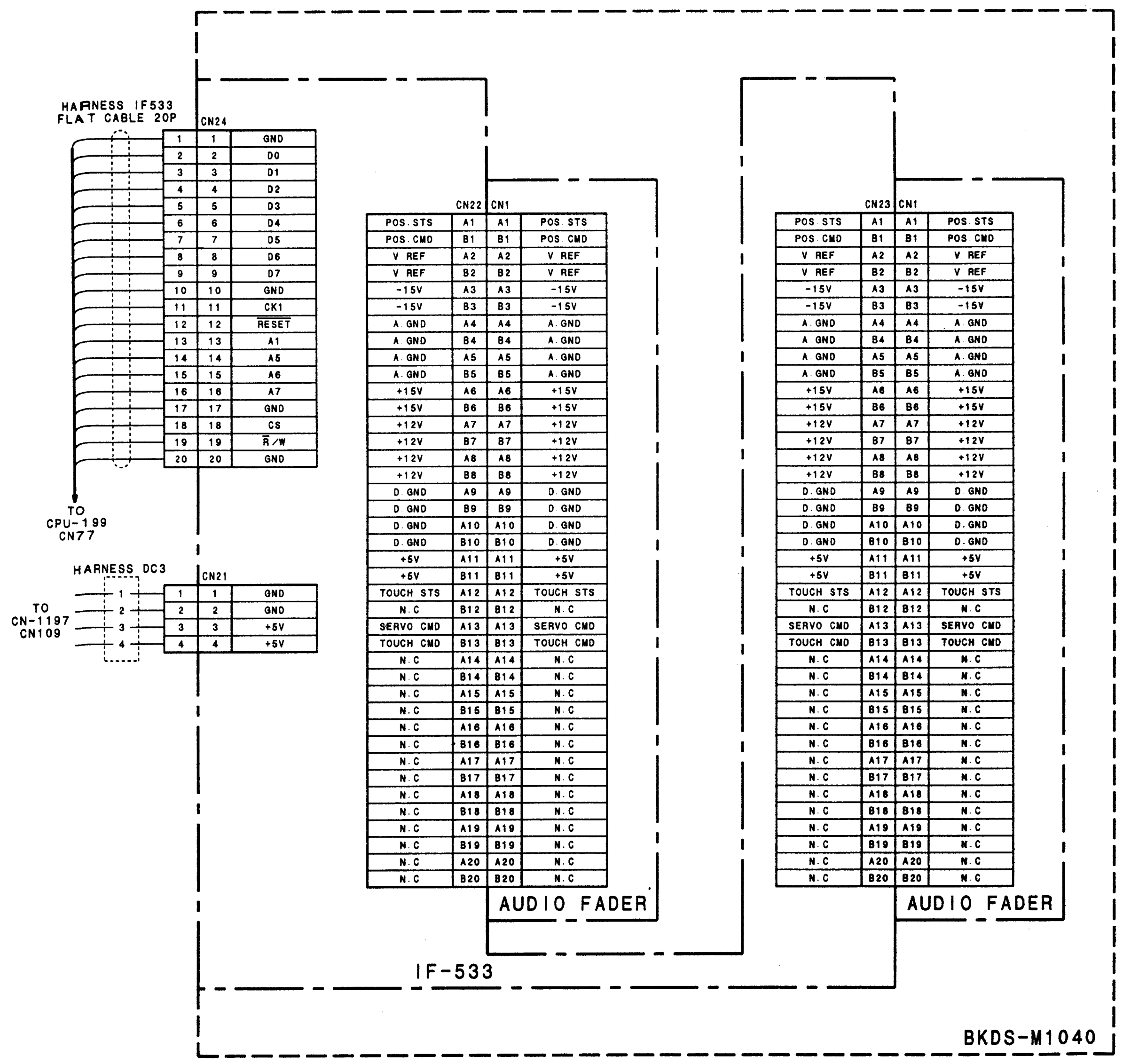
FRAME WIRING (1/3)
BKDS-M1010
BKDS-M1040/M1090

2-5


CPU-199
KY-334
LE-152
LE-153
LE-152
VR-203
LCD
KY-335
HARNESS SIO
CN72
TO CN-1197 CN101
HARNESS SIO
CN73
TO CN-1197 CN102
TERMINAL D-SUB 9PIN FEMALE
CN74
HARNESS DC2
CN71
TO CN-1197 CN110
CN75
FLAT CABLE 15P
CN13
CN76
FLAT CABLE 15P
CN14
CN77
HARNESS IF533 FLAT CABLE 20P
HARNESS DC1
CN1
TO CN-1197 CN108
TO IF-533 CN24
CN2
HARNESS LED
CN31
CN3
HARNESS LED
CN32
CN4
HARNESS LED
CN31
CN5
HARNESS LED
CN32
CN6
HARNESS LED
CN41
CN7
HARNESS LED
CN42
CN11
HARNESS VR
CN51
CN10
HARNESS LCD1 FLAT CABLE 14P
CN12
HARNESS LCD2
VLSS
VLED
CN8
HARNESS SW1
CN61
CN9
HARNESS SW2
CN62

FRAME WIRING (2/3)

BKDS-M1010
BKDS-M1040/M1090



	CN24	
1	1	GND
2	2	D0
3	3	D1
4	4	D2
5	5	D3
6	6	D4
7	7	D5
8	8	D6
9	9	D7
10	10	GND
11	11	CK1
12	12	$\overline{RESET}$
13	13	A1
14	14	A5
15	15	A6
16	16	A7
17	17	GND
18	18	CS
19	19	$\overline{R}$/W
20	20	GND

	CN21	
1	1	GND
2	2	GND
3	3	+5V
4	4	+5V

	CN22	CN1	
POS.STS	A1	A1	POS.STS
POS.CMD	B1	B1	POS.CMD
V REF	A2	A2	V REF
V REF	B2	B2	V REF
-15V	A3	A3	-15V
-15V	B3	B3	-15V
A.GND	A4	A4	A.GND
A.GND	B4	B4	A.GND
A.GND	A5	A5	A.GND
A.GND	B5	B5	A.GND
+15V	A6	A6	+15V
+15V	B6	B6	+15V
+12V	A7	A7	+12V
+12V	B7	B7	+12V
+12V	A8	A8	+12V
+12V	B8	B8	+12V
D.GND	A9	A9	D.GND
D.GND	B9	B9	D.GND
D.GND	A10	A10	D.GND
D.GND	B10	B10	D.GND
+5V	A11	A11	+5V
+5V	B11	B11	+5V
TOUCH STS	A12	A12	TOUCH STS
N.C	B12	B12	N.C
SERVO CMD	A13	A13	SERVO CMD
TOUCH CMD	B13	B13	TOUCH CMD
N.C	A14	A14	N.C
N.C	B14	B14	N.C
N.C	A15	A15	N.C
N.C	B15	B15	N.C
N.C	A16	A16	N.C
N.C	B16	B16	N.C
N.C	A17	A17	N.C
N.C	B17	B17	N.C
N.C	A18	A18	N.C
N.C	B18	B18	N.C
N.C	A19	A19	N.C
N.C	B19	B19	N.C
N.C	A20	A20	N.C
N.C	B20	B20	N.C

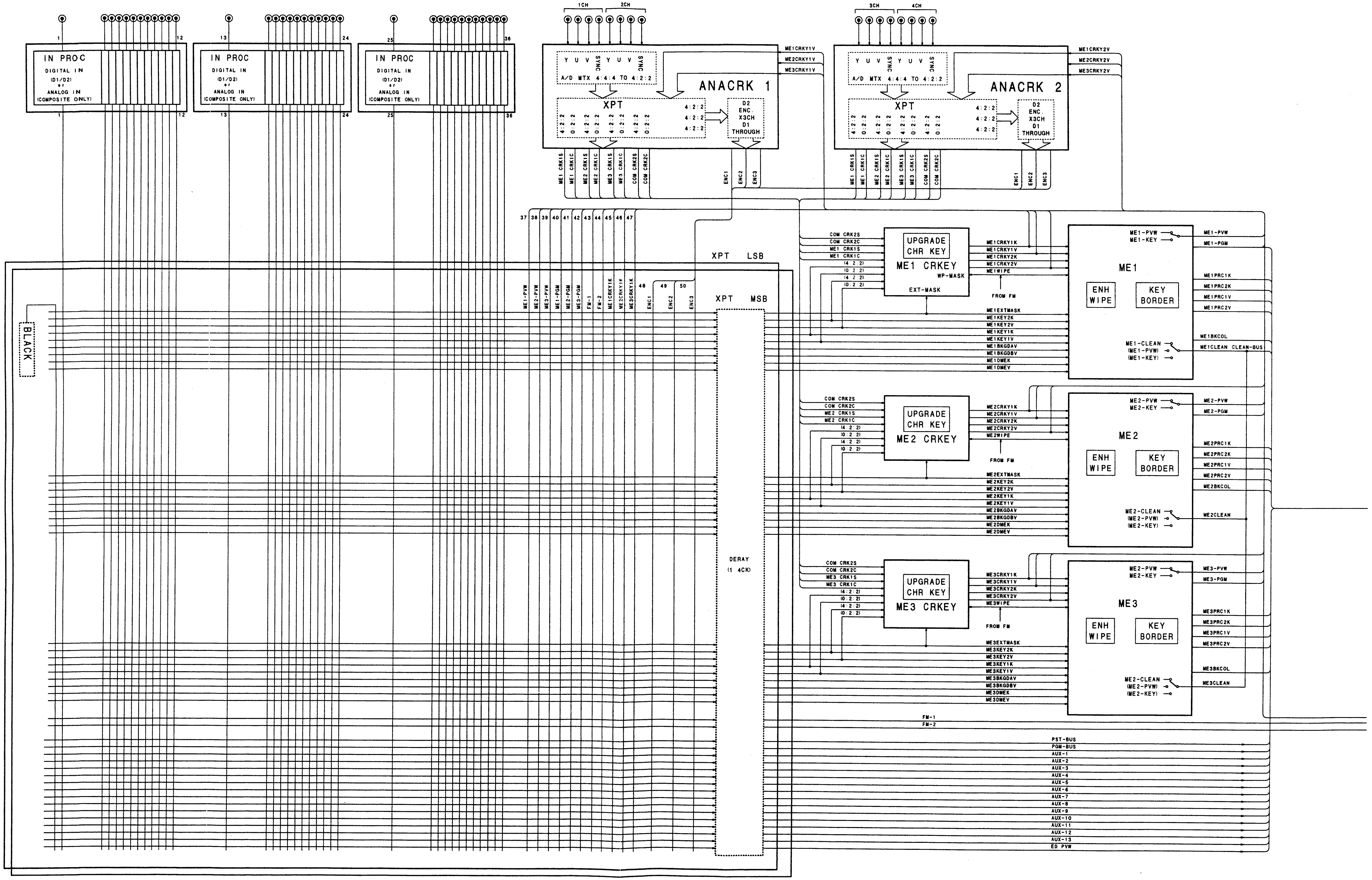
	CN23	CN1	
POS.STS	A1	A1	POS.STS
POS.CMD	B1	B1	POS.CMD
V REF	A2	A2	V REF
V REF	B2	B2	V REF
-15V	A3	A3	-15V
-15V	B3	B3	-15V
A.GND	A4	A4	A.GND
A.GND	B4	B4	A.GND
A.GND	A5	A5	A.GND
A.GND	B5	B5	A.GND
+15V	A6	A6	+15V
+15V	B6	B6	+15V
+12V	A7	A7	+12V
+12V	B7	B7	+12V
+12V	A8	A8	+12V
+12V	B8	B8	+12V
D.GND	A9	A9	D.GND
D.GND	B9	B9	D.GND
D.GND	A10	A10	D.GND
D.GND	B10	B10	D.GND
+5V	A11	A11	+5V
+5V	B11	B11	+5V
TOUCH STS	A12	A12	TOUCH STS
N.C	B12	B12	N.C
SERVO CMD	A13	A13	SERVO CMD
TOUCH CMD	B13	B13	TOUCH CMD
N.C	A14	A14	N.C
N.C	B14	B14	N.C
N.C	A15	A15	N.C
N.C	B15	B15	N.C
N.C	A16	A16	N.C
N.C	B16	B16	N.C
N.C	A17	A17	N.C
N.C	B17	B17	N.C
N.C	A18	A18	N.C
N.C	B18	B18	N.C
N.C	A19	A19	N.C
N.C	B19	B19	N.C
N.C	A20	A20	N.C
N.C	B20	B20	N.C

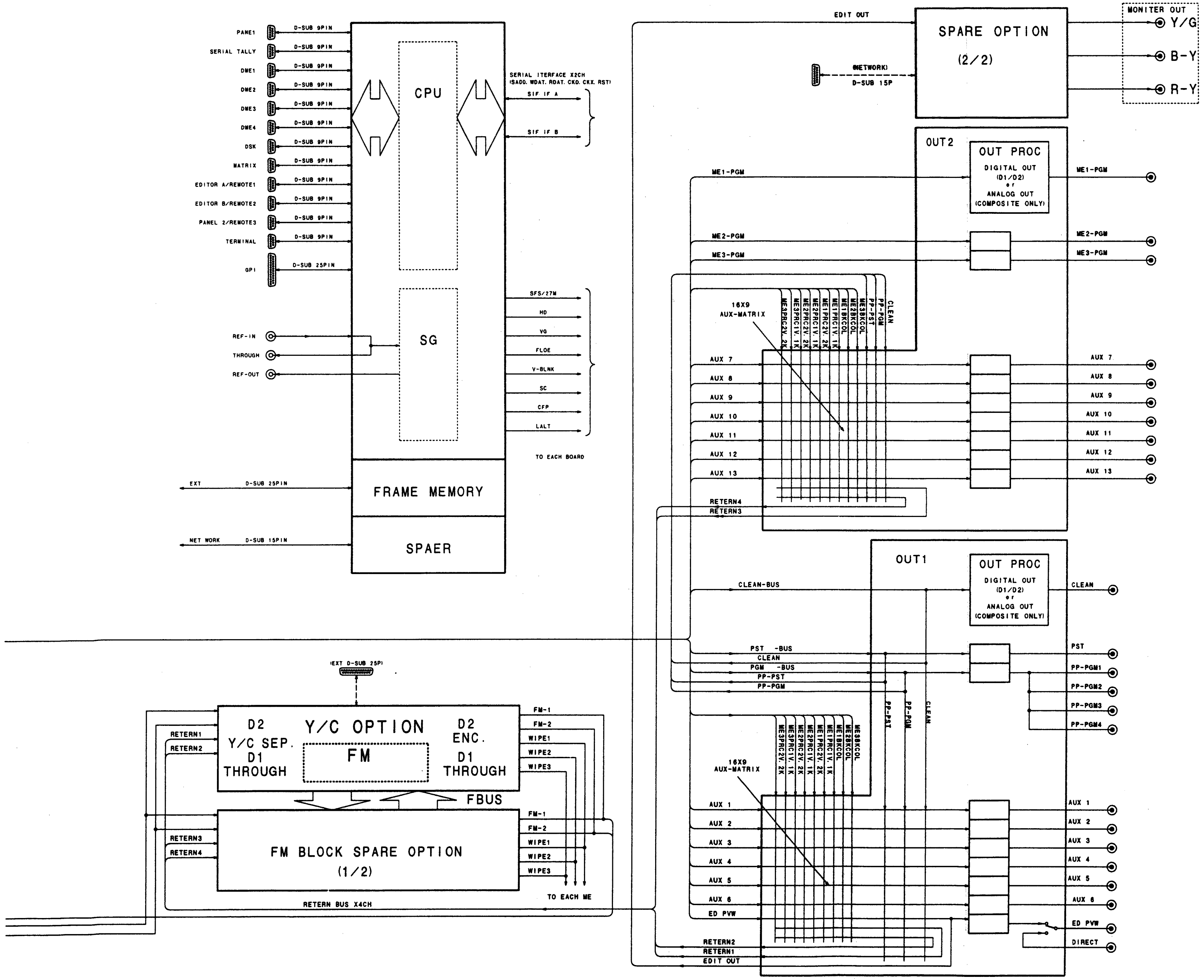
FRAME WIRING(3/3)

BKDS-M1010
BKDS-M1040/M1090

2-3. DVS-7000

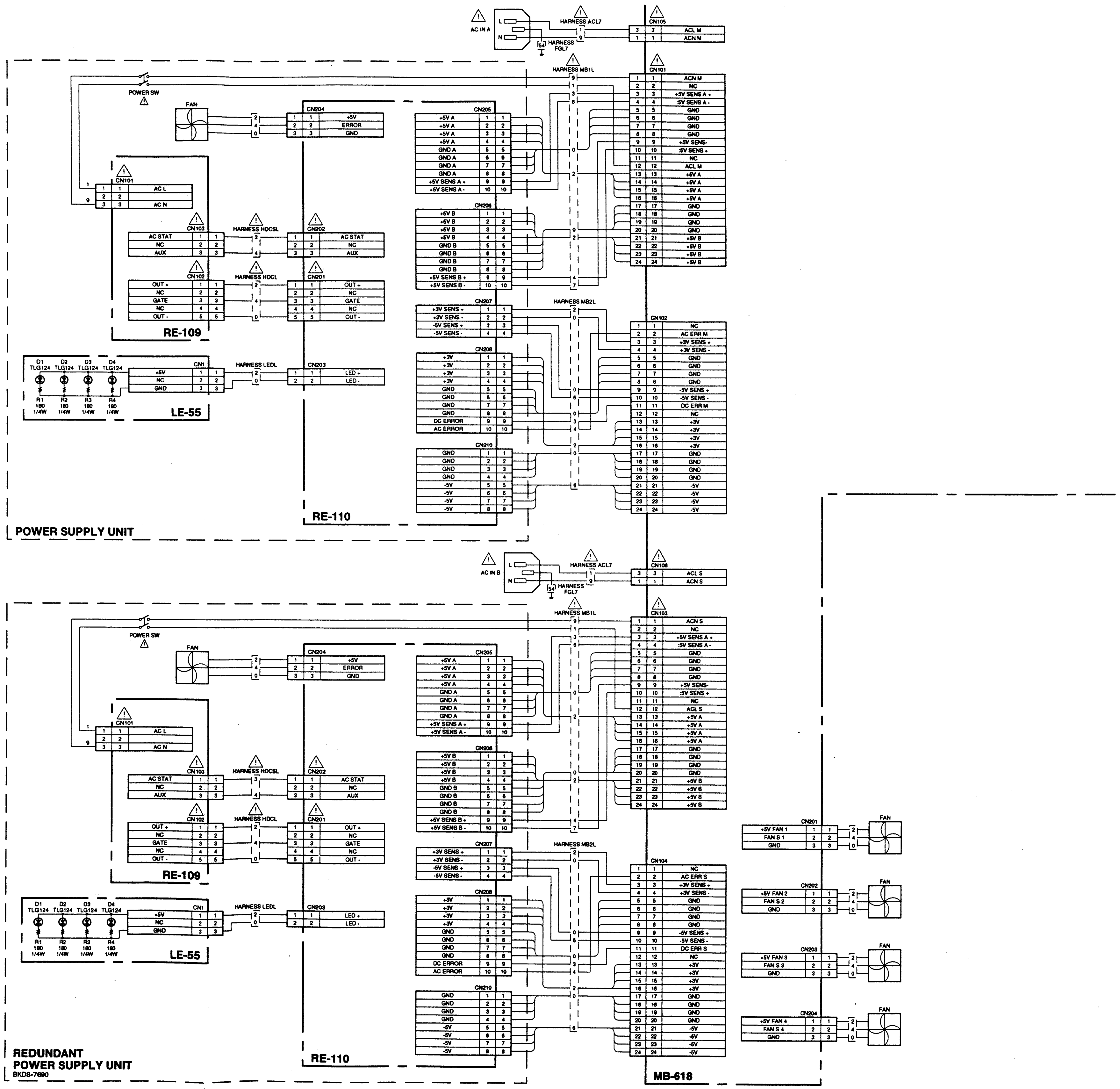
DVS-7000 OVERALL BLOCK

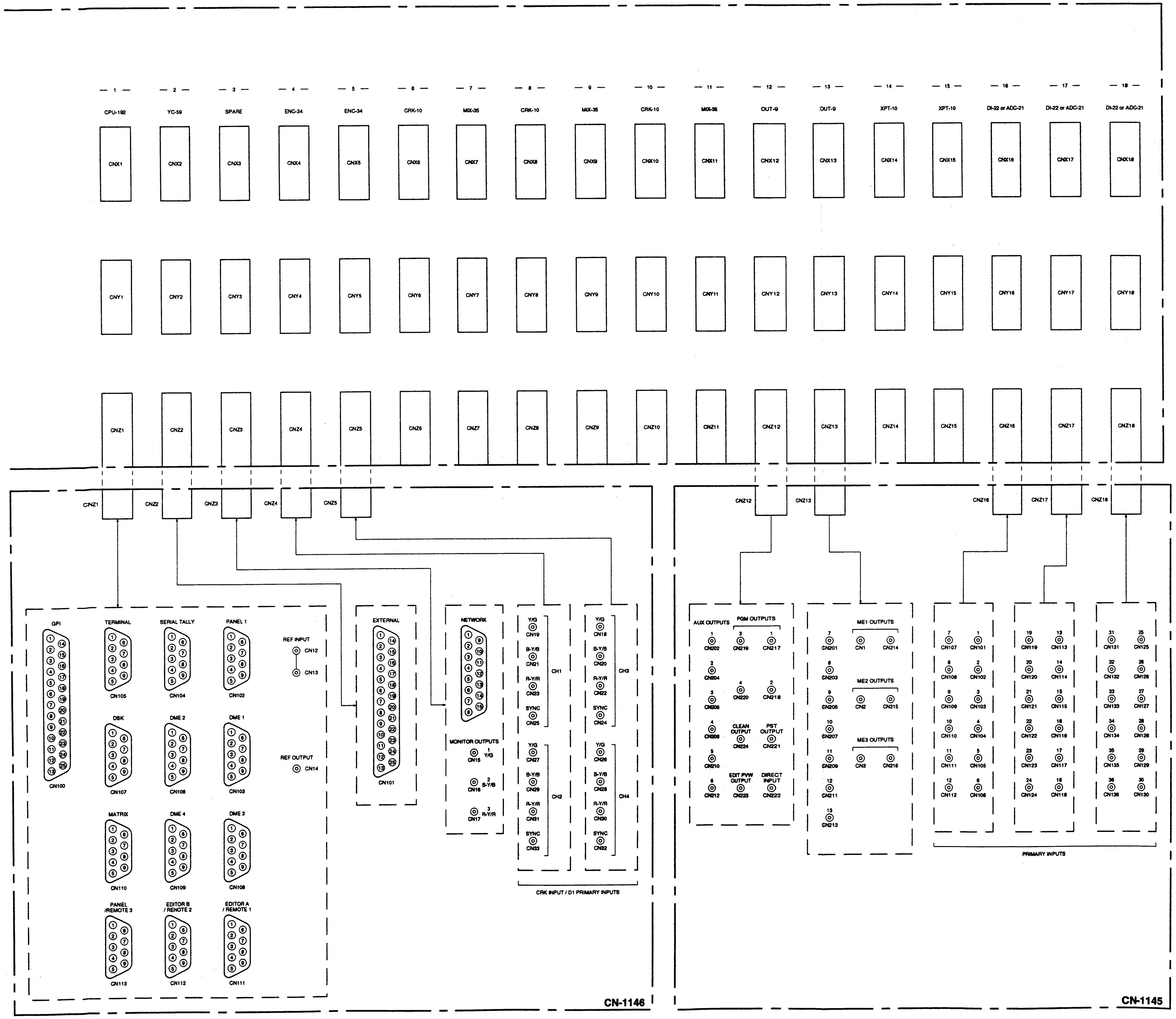

IN PROC
DIGITAL IN
(D1/D2)
or
ANALOG IN
(COMPOSITE ONLY)
1
12
13
24
25
36
1CH
2CH
3CH
4CH
Y U V SYNC Y U V SYNC
A/D MTX 4:4:4 TO 4:2:2
ANACRK 1
ANACRK 2
XPT
4:2:2
0:2:2
D2
ENC.
X3CH
D1
THROUGH
ME1CRKY1V
ME2CRKY1V
ME3CRKY1V
ME1CRKY2V
ME2CRKY2V
ME3CRKY2V
ME1 CRK1S
ME1 CRK1C
ME2 CRK1S
ME2 CRK1C
ME3 CRK1S
ME3 CRK1C
COM CRK2S
COM CRK2C
ENC1
ENC2
ENC3
37
38
39
40
41
42
43
44
45
46
47
48
49
50
ME1-PVW
ME2-PVW
ME3-PVW
ME1-PGM
ME2-PGM
ME3-PGM
FM-1
FM-2
ME1CRKY1K
ME2CRKY1K
ME3CRKY1K
XPT LSB
XPT MSB
BLACK
DERAY
(1 4CK)
UPGRADE
CHR KEY
ME1 CRKEY
ME2 CRKEY
ME3 CRKEY
WP-MASK
EXT-MASK
(4:2:2)
(0:2:2)
ME1CRKY1K
ME1CRKY1V
ME1CRKY2K
ME1CRKY2V
ME1WIPE
FROM FM
ME1EXTMASK
ME1KEY2K
ME1KEY2V
ME1KEY1K
ME1KEY1V
ME1BKGDAV
ME1BKGDBV
ME1DMEK
ME1DMEV
ME1
ENH
WIPE
KEY
BORDER
ME1-PVW
ME1-KEY
ME1-CLEAN
(ME1-PVW)
(ME1-KEY)
ME1-PVW
ME1-PGM
ME1PRC1K
ME1PRC2K
ME1PRC1V
ME1PRC2V
ME1BKCOL
ME1CLEAN CLEAN-BUS
ME2CRKY1K
ME2CRKY1V
ME2CRKY2K
ME2CRKY2V
ME2WIPE
ME2EXTMASK
ME2KEY2K
ME2KEY2V
ME2KEY1K
ME2KEY1V
ME2BKGDAV
ME2BKGDBV
ME2DMEK
ME2DMEV
ME2
ME2-PVW
ME2-KEY
ME2-CLEAN
(ME2-PVW)
(ME2-KEY)
ME2-PGM
ME2PRC1K
ME2PRC2K
ME2PRC1V
ME2PRC2V
ME2BKCOL
ME2CLEAN
ME3CRKY1K
ME3CRKY1V
ME3CRKY2K
ME3CRKY2V
ME3WIPE
ME3EXTMASK
ME3KEY2K
ME3KEY2V
ME3KEY1K
ME3KEY1V
ME3BKGDAV
ME3BKGDBV
ME3DMEK
ME3DMEV
ME3
ME3-PVW
ME3-PGM
ME3PRC1K
ME3PRC2K
ME3PRC1V
ME3PRC2V
ME3BKCOL
ME3CLEAN
FM-1
FM-2
PST-BUS
PGM-BUS
AUX-1
AUX-2
AUX-3
AUX-4
AUX-5
AUX-6
AUX-7
AUX-8
AUX-9
AUX-10
AUX-11
AUX-12
AUX-13
ED PVW


PANE1
SERIAL TALLY
DME1
DME2
DME3
DME4
DSK
MATRIX
EDITOR A/REMOTE1
EDITOR B/REMOTE2
PANEL 2/REMOTE3
TERMINAL
GPI
D-SUB 9PIN
D-SUB 25PIN
CPU
SERIAL ITERFACE X2CH
(SADD. WDAT. RDAT. CKD. CKX. RST)
SIF IF A
SIF IF B
REF-IN
THROUGH
REF-OUT
SG
SFS/27M
HD
VG
FLOE
V-BLNK
SC
CFP
LALT
TO EACH BOARD
EXT
D-SUB 25PIN
FRAME MEMORY
NET WORK
D-SUB 15PIN
SPAER
EDIT OUT
SPARE OPTION
(2/2)
(NETWORK)
D-SUB 15P
MONITER OUT
Y/G
B-Y
R-Y
OUT2
OUT PROC
DIGITAL OUT
(D1/D2)
or
ANALOG OUT
(COMPOSITE ONLY)
ME1-PGM
ME2-PGM
ME3-PGM
16X9
AUX-MATRIX
ME3PRC2V. 2K
ME3PRC1V. 1K
ME2PRC2V. 2K
ME2PRC1V. 1K
ME1PRC2V. 2K
ME1PRC1V. 1K
ME1BKCOL
ME2BKCOL
ME3BKCOL
PP-PST
PP-PGM
CLEAN
AUX 7
AUX 8
AUX 9
AUX 10
AUX 11
AUX 12
AUX 13
RETERN4
RETERN3
OUT1
CLEAN-BUS
CLEAN
PST -BUS
PGM -BUS
PP-PST
PP-PGM
PST
PP-PGM1
PP-PGM2
PP-PGM3
PP-PGM4
AUX 1
AUX 2
AUX 3
AUX 4
AUX 5
AUX 6
ED PVW
DIRECT
RETERN2
RETERN1
EDIT OUT
(EXT D-SUB 25P)
D2
Y/C SEP.
D1
THROUGH
Y/C OPTION
FM
D2
ENC.
D1
THROUGH
FBUS
RETERN1
RETERN2
RETERN3
RETERN4
FM BLOCK SPARE OPTION
(1/2)
FM-1
FM-2
WIPE1
WIPE2
WIPE3
TO EACH ME
RETERN BUS X4CH

OVERALL BLOCK
DVS-7000

DVS-7000 FRAME WIRING


AC IN A
HARNESS ACL7
HARNESS FGL7
CN105
ACL M
ACN M
HARNESS MB1L
CN101
POWER SW
FAN
CN204
+5V
ERROR
GND
CN205
CN206
CN207
CN208
CN210
CN101
AC L
AC N
CN103
HARNESS HDCSL
CN202
AC STAT
NC
AUX
CN102
HARNESS HDCL
CN201
OUT +
GATE
OUT -
RE-109
D1 D2 D3 D4
TLG124
R1 R2 R3 R4
180
1/4W
CN1
HARNESS LEDL
CN203
LED +
LED -
LE-55
RE-110
HARNESS MB2L
CN102
POWER SUPPLY UNIT
AC IN B
CN106
ACL S
ACN S
CN103
CN104
REDUNDANT
POWER SUPPLY UNIT
BKDS-7690
+5V FAN 1
FAN S 1
+5V FAN 2
FAN S 2
+5V FAN 3
FAN S 3
+5V FAN 4
FAN S 4
MB-618

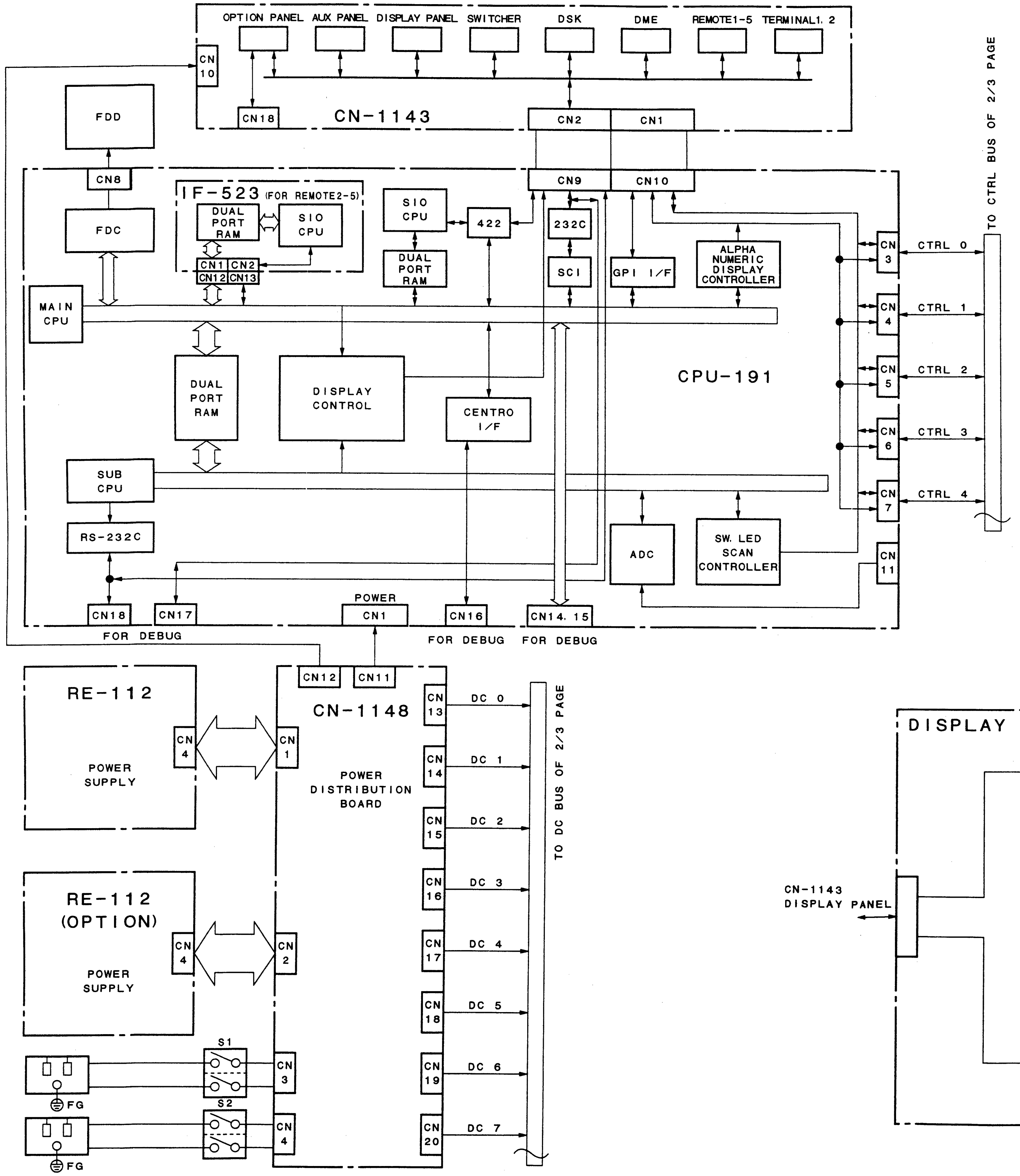

1 CPU-192 CNX1 CNY1 CNZ1
2 YC-59 CNX2 CNY2 CNZ2
3 SPARE CNX3 CNY3 CNZ3
4 ENC-34 CNX4 CNY4 CNZ4
5 ENC-34 CNX5 CNY5 CNZ5
6 CRK-10 CNX6 CNY6 CNZ6
7 MIX-35 CNX7 CNY7 CNZ7
8 CRK-10 CNX8 CNY8 CNZ8
9 MIX-35 CNX9 CNY9 CNZ9
10 CRK-10 CNX10 CNY10 CNZ10
11 MIX-36 CNX11 CNY11 CNZ11
12 OUT-9 CNX12 CNY12 CNZ12
13 OUT-9 CNX13 CNY13 CNZ13
14 XPT-10 CNX14 CNY14 CNZ14
15 XPT-10 CNX15 CNY15 CNZ15
16 DI-22 or ADC-21 CNX16 CNY16 CNZ16
17 DI-22 or ADC-21 CNX17 CNY17 CNZ17
18 DI-22 or ADC-21 CNX18 CNY18 CNZ18
GPI CN100
TERMINAL CN105
SERIAL TALLY CN104
PANEL 1 CN102
REF INPUT CN12 CN13
DSK CN107
DME 2 CN106
DME 1 CN103
REF OUTPUT CN14
MATRIX CN110
DME 4 CN109
DME 3 CN108
PANEL /REMOTE 3 CN113
EDITOR B / RENOTE 2 CN112
EDITOR A / REMOTE 1 CN111
EXTERNAL CN101
NETWORK
MONITOR OUTPUTS
1 Y/G CN15
2 B-Y/B CN16
3 R-Y/R CN17
CH1 Y/G CN19 B-Y/B CN21 R-Y/R CN23 SYNC CN25
CH3 Y/G CN18 B-Y/B CN20 R-Y/R CN22 SYNC CN24
CH2 Y/G CN27 B-Y/B CN29 R-Y/R CN31 SYNC CN33
CH4 Y/G CN26 B-Y/B CN28 R-Y/R CN30 SYNC CN32
CRK INPUT / D1 PRIMARY INPUTS
CN-1146
AUX OUTPUTS
1 CN202
2 CN204
3 CN206
4 CN208
5 CN210
6 CN212
PGM OUTPUTS
3 CN219
1 CN217
4 CN220
2 CN218
CLEAN OUTPUT CN224
PST OUTPUT CN221
EDIT PVW OUTPUT CN223
DIRECT INPUT CN222
7 CN201
8 CN203
9 CN205
10 CN207
11 CN209
12 CN211
13 CN213
ME1 OUTPUTS CN1 CN214
ME2 OUTPUTS CN2 CN215
ME3 OUTPUTS CN3 CN216
7 CN107
8 CN108
9 CN109
10 CN110
11 CN111
12 CN112
1 CN101
2 CN102
3 CN103
4 CN104
5 CN105
6 CN106
19 CN119
20 CN120
21 CN121
22 CN122
23 CN123
24 CN124
13 CN113
14 CN114
15 CN115
16 CN116
17 CN117
18 CN118
31 CN131
32 CN132
33 CN133
34 CN134
35 CN135
36 CN136
25 CN125
26 CN126
27 CN127
28 CN128
29 CN129
30 CN130
PRIMARY INPUTS
CN-1145

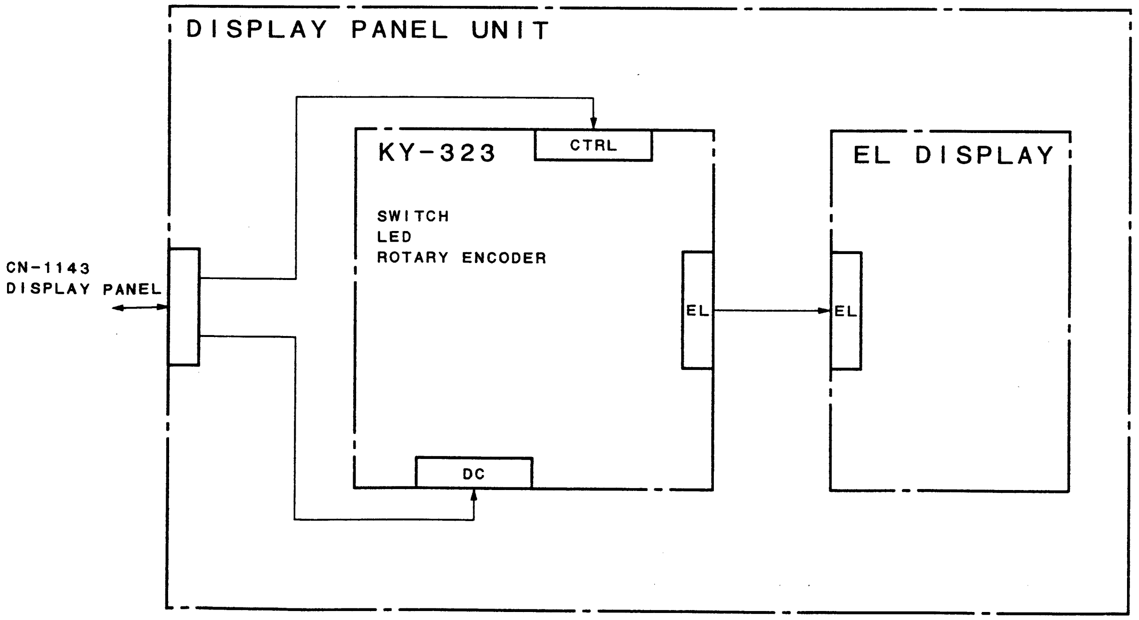
FRAME WIRING

DVS-7000
BKDS-7690

BKDS-7011/7012 OVERALL (1/3)

2-4. BKDS-7011/7012
BKDS-7011/7012 OVERALL BLOCK

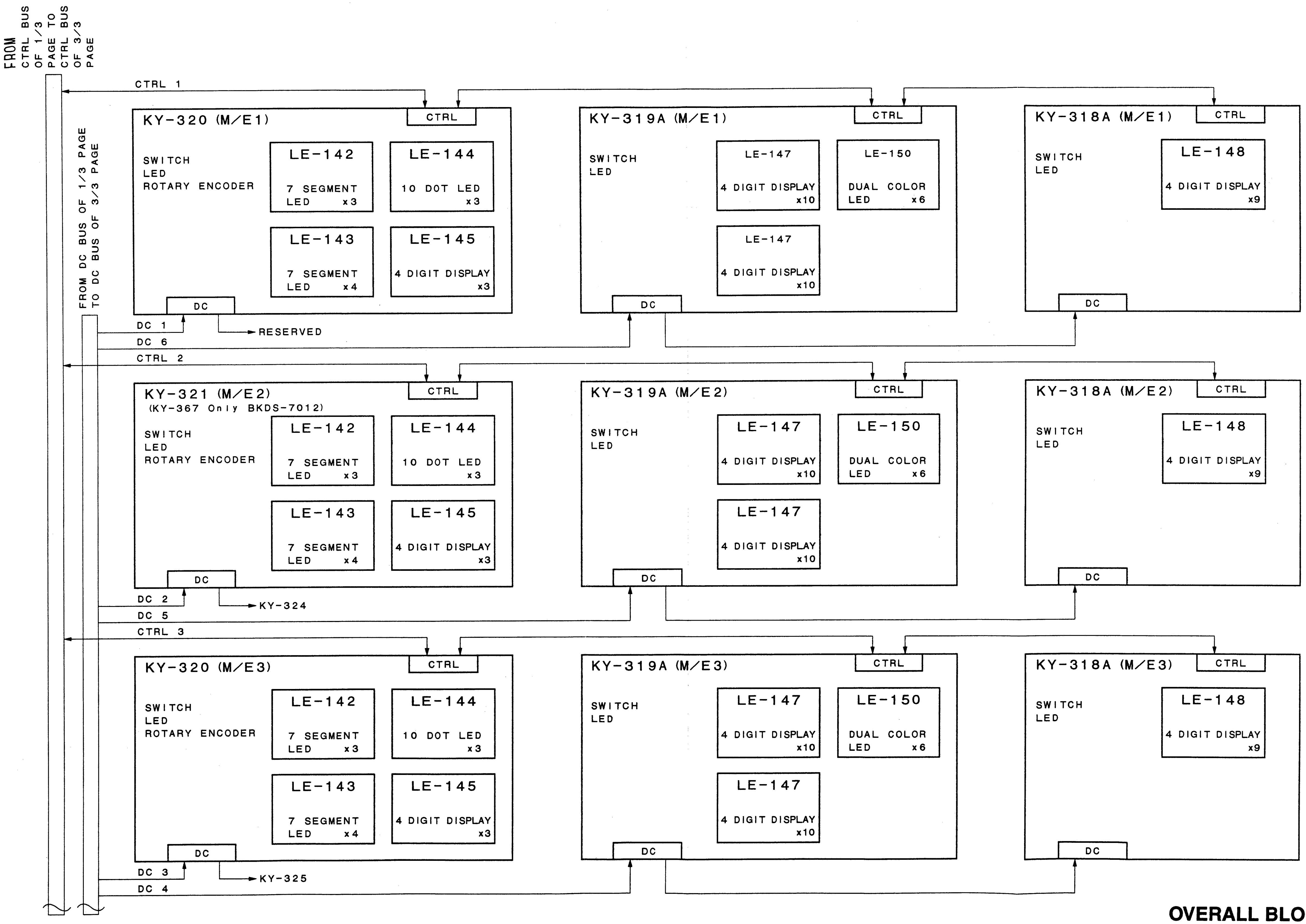

OPTION PANEL
AUX PANEL
DISPLAY PANEL
SWITCHER
DSK
DME
REMOTE1-5
TERMINAL1, 2
CN 10
CN18
CN-1143
CN2
CN1
FDD
CN8
FDC
IF-523 (FOR REMOTE2-5)
DUAL PORT RAM
SIO CPU
CN1
CN2
CN12
CN13
SIO CPU
DUAL PORT RAM
422
CN9
CN10
232C
SCI
GPI I/F
ALPHA NUMERIC DISPLAY CONTROLLER
MAIN CPU
DUAL PORT RAM
DISPLAY CONTROL
CENTRO I/F
CPU-191
SUB CPU
RS-232C
ADC
SW. LED SCAN CONTROLLER
CN 3
CN 4
CN 5
CN 6
CN 7
CN 11
CTRL 0
CTRL 1
CTRL 2
CTRL 3
CTRL 4
TO CTRL BUS OF 2/3 PAGE
CN18
CN17
POWER
CN1
CN16
CN14, 15
FOR DEBUG
FOR DEBUG
FOR DEBUG
RE-112
POWER SUPPLY
CN 4
CN 1
CN12
CN11
CN-1148
POWER DISTRIBUTION BOARD
RE-112 (OPTION)
POWER SUPPLY
CN 4
CN 2
S1
S2
CN 3
CN 4
FG
FG
CN 13
CN 14
CN 15
CN 16
CN 17
CN 18
CN 19
CN 20
DC 0
DC 1
DC 2
DC 3
DC 4
DC 5
DC 6
DC 7
TO DC BUS OF 2/3 PAGE


DISPLAY PANEL UNIT
CN-1143 DISPLAY PANEL
KY-323
CTRL
SWITCH
LED
ROTARY ENCODER
EL
DC
EL DISPLAY
EL

OVERALL BLOCK (1/3)

BKDS-7011/7012
BKDS-7001/7090

BKDS-7011/7012 OVERALL (2/3)

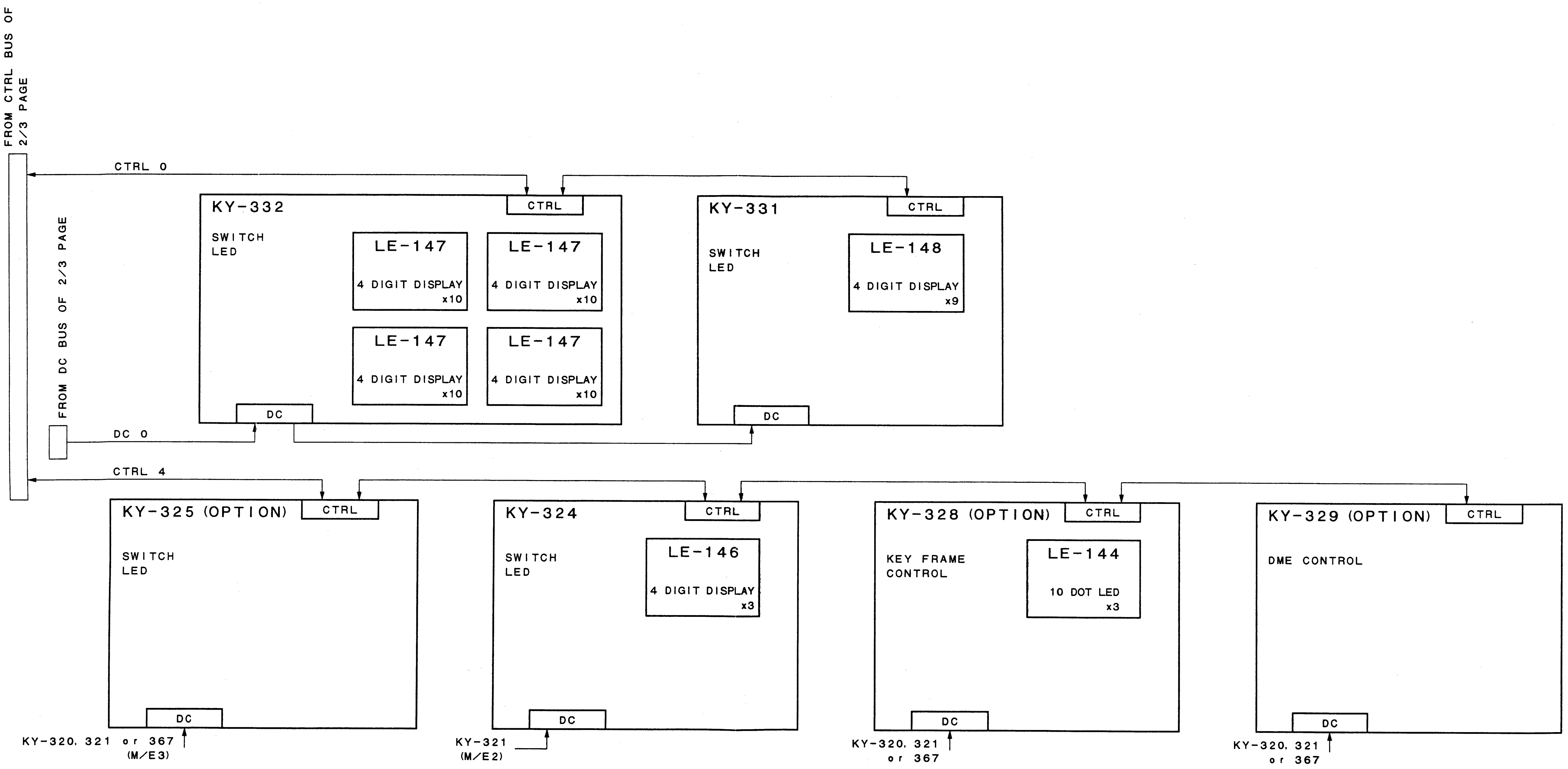

FROM CTRL BUS OF 1/3 PAGE TO CTRL BUS OF 3/3 PAGE
FROM DC BUS OF 1/3 PAGE TO DC BUS OF 3/3 PAGE
CTRL 1
KY-320 (M/E1)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 1
RESERVED
DC 6
KY-319A (M/E1)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E1)
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
CTRL 2
KY-321 (M/E2)
(KY-367 Only BKDS-7012)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 2
KY-324
DC 5
KY-319A (M/E2)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E2)
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
CTRL 3
KY-320 (M/E3)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 3
KY-325
DC 4
KY-319A (M/E3)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E3)
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC

OVERALL BLOCK (2/3)

BKDS-7011/7012

2-13

BKDS-7011/7012 OVERALL (3/3)

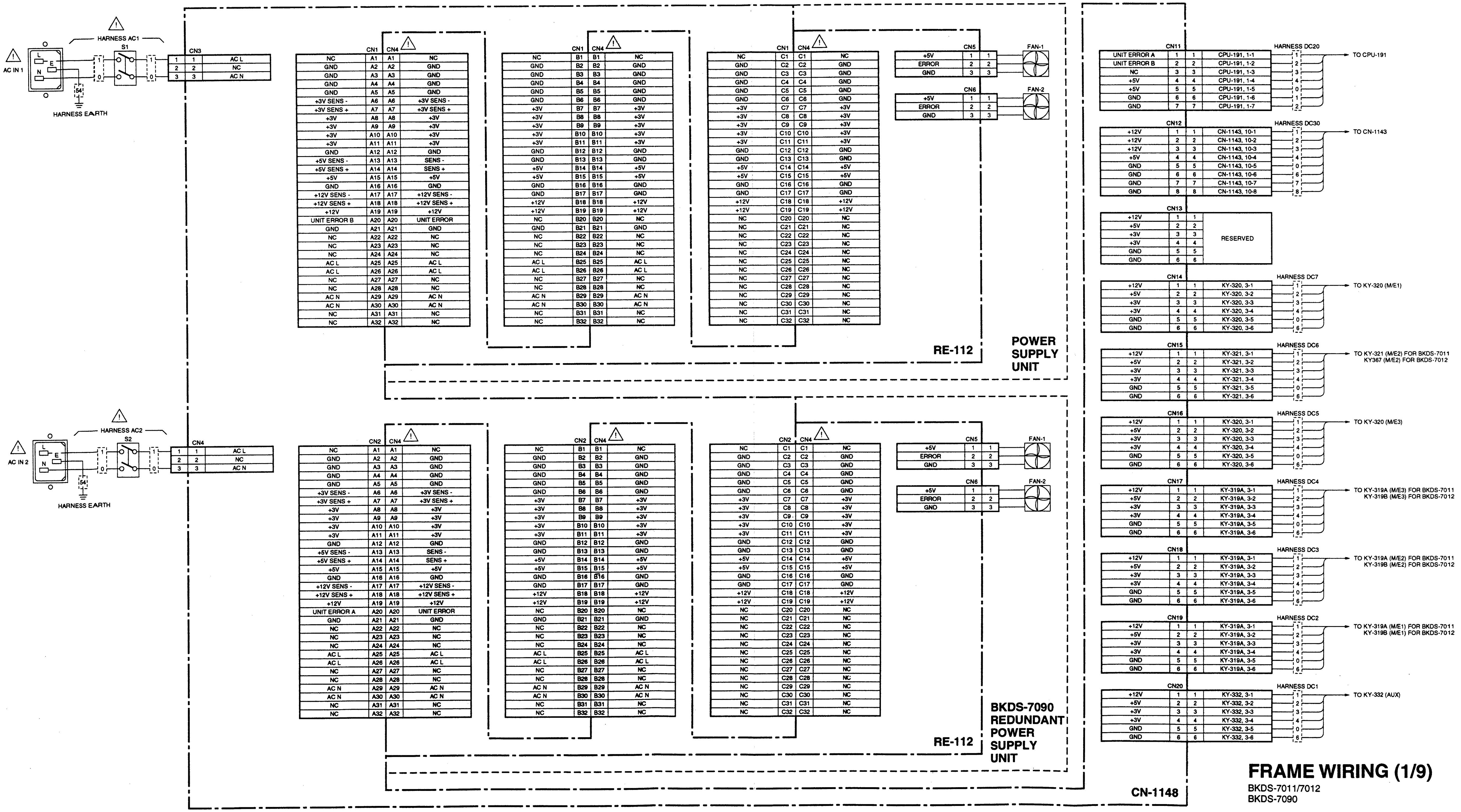

FROM CTRL BUS OF 2/3 PAGE
CTRL 0
FROM DC BUS OF 2/3 PAGE
DC 0
CTRL 4
KY-332
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY
x10
LE-147
4 DIGIT DISPLAY
x10
LE-147
4 DIGIT DISPLAY
x10
LE-147
4 DIGIT DISPLAY
x10
DC
KY-331
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY
x9
DC
KY-325 (OPTION)
CTRL
SWITCH
LED
DC
KY-320, 321 or 367
(M/E3)
KY-324
CTRL
SWITCH
LED
LE-146
4 DIGIT DISPLAY
x3
DC
KY-321
(M/E2)
KY-328 (OPTION)
CTRL
KEY FRAME
CONTROL
LE-144
10 DOT LED
x3
DC
KY-320, 321
or 367
KY-329 (OPTION)
CTRL
DME CONTROL
DC
KY-320, 321
or 367

OVERALL BLOCK (3/3)

BKDS-7011/7012
BKDS-7030/7031/7032

BKDS-7011/7012 FRAME (1/9)

BKDS-7011/7012 FRAME WIRING

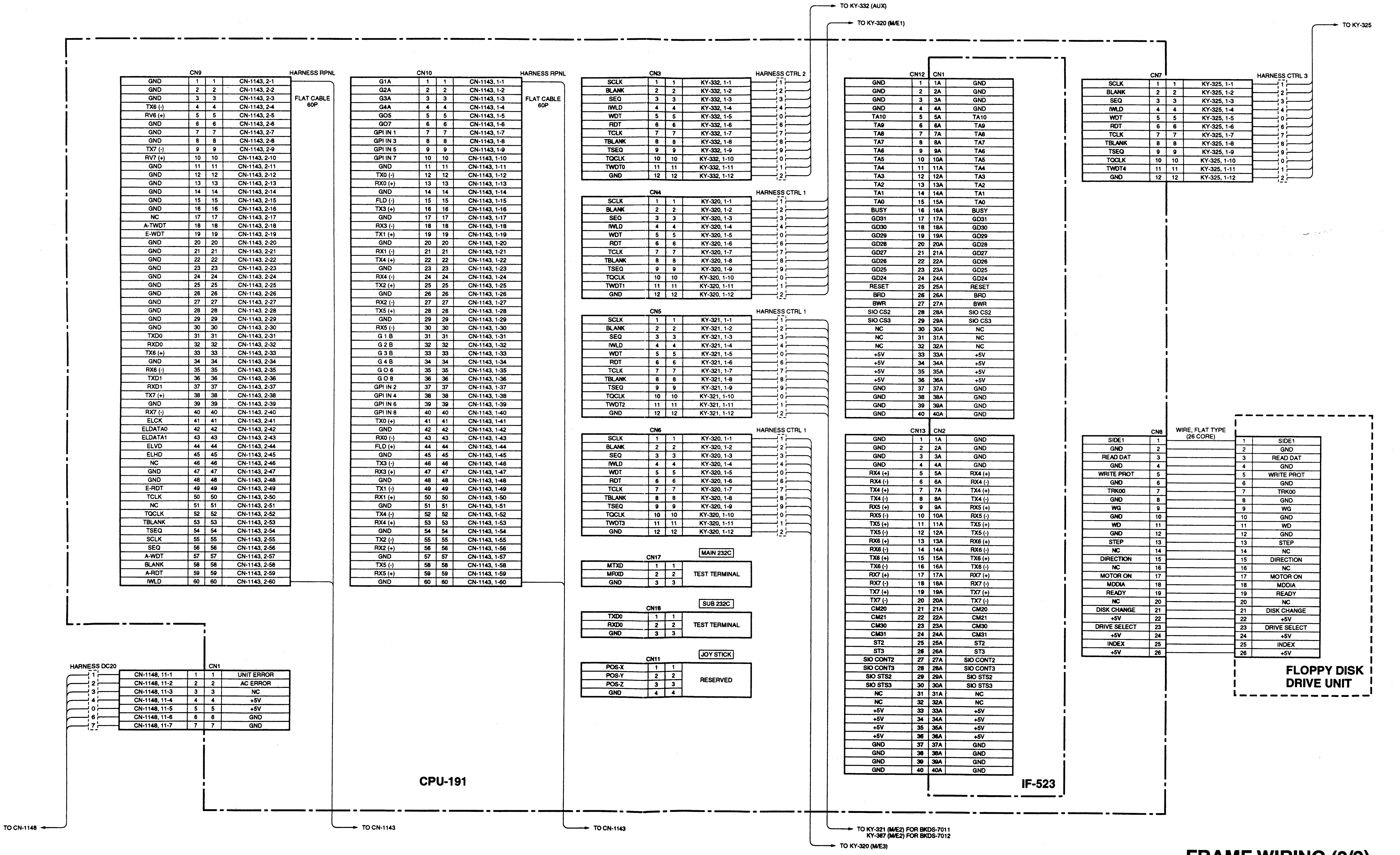

AC IN 1
HARNESS AC1
S1
HARNESS EARTH
CN3
AC L
NC
AC N
AC IN 2
HARNESS AC2
S2
CN4
CN1
CN4
CN2
FAN-1
FAN-2
CN5
CN6
+5V
ERROR
GND
RE-112
POWER SUPPLY UNIT
BKDS-7090 REDUNDANT POWER SUPPLY UNIT
CN11
HARNESS DC20
TO CPU-191
CN12
HARNESS DC30
TO CN-1143
CN13
RESERVED
CN14
HARNESS DC7
TO KY-320 (M/E1)
CN15
HARNESS DC6
TO KY-321 (M/E2) FOR BKDS-7011
KY367 (M/E2) FOR BKDS-7012
CN16
HARNESS DC5
TO KY-320 (M/E3)
CN17
HARNESS DC4
TO KY-319A (M/E3) FOR BKDS-7011
KY-319B (M/E3) FOR BKDS-7012
CN18
HARNESS DC3
TO KY-319A (M/E2) FOR BKDS-7011
KY-319B (M/E2) FOR BKDS-7012
CN19
HARNESS DC2
TO KY-319A (M/E1) FOR BKDS-7011
KY-319B (M/E1) FOR BKDS-7012
CN20
HARNESS DC1
TO KY-332 (AUX)
CN-1148

FRAME WIRING (1/9)

BKDS-7011/7012
BKDS-7090

2-15

BKDS-7011/7012 FRAME (2/9)



	CN9		HARNESS RPNL
GND	1	1	CN-1143, 2-1
GND	2	2	CN-1143, 2-2
GND	3	3	CN-1143, 2-3
TX6 (-)	4	4	CN-1143, 2-4
RV6 (+)	5	5	CN-1143, 2-5
GND	6	6	CN-1143, 2-6
GND	7	7	CN-1143, 2-7
GND	8	8	CN-1143, 2-8
TX7 (-)	9	9	CN-1143, 2-9
RV7 (+)	10	10	CN-1143, 2-10
GND	11	11	CN-1143, 2-11
GND	12	12	CN-1143, 2-12
GND	13	13	CN-1143, 2-13
GND	14	14	CN-1143, 2-14
GND	15	15	CN-1143, 2-15
GND	16	16	CN-1143, 2-16
NC	17	17	CN-1143, 2-17
A-TWDT	18	18	CN-1143, 2-18
E-WDT	19	19	CN-1143, 2-19
GND	20	20	CN-1143, 2-20
GND	21	21	CN-1143, 2-21
GND	22	22	CN-1143, 2-22
GND	23	23	CN-1143, 2-23
GND	24	24	CN-1143, 2-24
GND	25	25	CN-1143, 2-25
GND	26	26	CN-1143, 2-26
GND	27	27	CN-1143, 2-27
GND	28	28	CN-1143, 2-28
GND	29	29	CN-1143, 2-29
GND	30	30	CN-1143, 2-30
TXD0	31	31	CN-1143, 2-31
RXD0	32	32	CN-1143, 2-32
TX6 (+)	33	33	CN-1143, 2-33
GND	34	34	CN-1143, 2-34
RX6 (-)	35	35	CN-1143, 2-35
TXD1	36	36	CN-1143, 2-36
RXD1	37	37	CN-1143, 2-37
TX7 (+)	38	38	CN-1143, 2-38
GND	39	39	CN-1143, 2-39
RX7 (-)	40	40	CN-1143, 2-40
ELCK	41	41	CN-1143, 2-41
ELDATA0	42	42	CN-1143, 2-42
ELDATA1	43	43	CN-1143, 2-43
ELVD	44	44	CN-1143, 2-44
ELHD	45	45	CN-1143, 2-45
NC	46	46	CN-1143, 2-46
GND	47	47	CN-1143, 2-47
GND	48	48	CN-1143, 2-48
E-RDT	49	49	CN-1143, 2-49
TCLK	50	50	CN-1143, 2-50
NC	51	51	CN-1143, 2-51
TQCLK	52	52	CN-1143, 2-52
TBLANK	53	53	CN-1143, 2-53
TSEQ	54	54	CN-1143, 2-54
SCLK	55	55	CN-1143, 2-55
SEQ	56	56	CN-1143, 2-56
A-WDT	57	57	CN-1143, 2-57
BLANK	58	58	CN-1143, 2-58
A-RDT	59	59	CN-1143, 2-59
IWLD	60	60	CN-1143, 2-60

	CN10		HARNESS RPNL
G1A	1	1	CN-1143, 1-1
G2A	2	2	CN-1143, 1-2
G3A	3	3	CN-1143, 1-3
G4A	4	4	CN-1143, 1-4
GO5	5	5	CN-1143, 1-5
GO7	6	6	CN-1143, 1-6
GPI IN 1	7	7	CN-1143, 1-7
GPI IN 3	8	8	CN-1143, 1-8
GPI IN 5	9	9	CN-1143, 1-9
GPI IN 7	10	10	CN-1143, 1-10
GND	11	11	CN-1143, 1-11
TX0 (-)	12	12	CN-1143, 1-12
RX0 (+)	13	13	CN-1143, 1-13
GND	14	14	CN-1143, 1-14
FLD (-)	15	15	CN-1143, 1-15
TX3 (+)	16	16	CN-1143, 1-16
GND	17	17	CN-1143, 1-17
RX3 (-)	18	18	CN-1143, 1-18
TX1 (+)	19	19	CN-1143, 1-19
GND	20	20	CN-1143, 1-20
RX1 (-)	21	21	CN-1143, 1-21
TX4 (+)	22	22	CN-1143, 1-22
GND	23	23	CN-1143, 1-23
RX4 (-)	24	24	CN-1143, 1-24
TX2 (+)	25	25	CN-1143, 1-25
GND	26	26	CN-1143, 1-26
RX2 (-)	27	27	CN-1143, 1-27
TX5 (+)	28	28	CN-1143, 1-28
GND	29	29	CN-1143, 1-29
RX5 (-)	30	30	CN-1143, 1-30
G 1 B	31	31	CN-1143, 1-31
G 2 B	32	32	CN-1143, 1-32
G 3 B	33	33	CN-1143, 1-33
G 4 B	34	34	CN-1143, 1-34
G O 6	35	35	CN-1143, 1-35
G O 8	36	36	CN-1143, 1-36
GPI IN 2	37	37	CN-1143, 1-37
GPI IN 4	38	38	CN-1143, 1-38
GPI IN 6	39	39	CN-1143, 1-39
GPI IN 8	40	40	CN-1143, 1-40
TX0 (+)	41	41	CN-1143, 1-41
GND	42	42	CN-1143, 1-42
RX0 (-)	43	43	CN-1143, 1-43
FLD (+)	44	44	CN-1143, 1-44
GND	45	45	CN-1143, 1-45
TX3 (-)	46	46	CN-1143, 1-46
RX3 (+)	47	47	CN-1143, 1-47
GND	48	48	CN-1143, 1-48
TX1 (-)	49	49	CN-1143, 1-49
RX1 (+)	50	50	CN-1143, 1-50
GND	51	51	CN-1143, 1-51
TX4 (-)	52	52	CN-1143, 1-52
RX4 (+)	53	53	CN-1143, 1-53
GND	54	54	CN-1143, 1-54
TX2 (-)	55	55	CN-1143, 1-55
RX2 (+)	56	56	CN-1143, 1-56
GND	57	57	CN-1143, 1-57
TX5 (-)	58	58	CN-1143, 1-58
RX5 (+)	59	59	CN-1143, 1-59
GND	60	60	CN-1143, 1-60

	CN3			HARNESS CTRL 2
SCLK	1	1	KY-332, 1-1	1
BLANK	2	2	KY-332, 1-2	2
SEQ	3	3	KY-332, 1-3	3
IWLD	4	4	KY-332, 1-4	4
WDT	5	5	KY-332, 1-5	0
RDT	6	6	KY-332, 1-6	6
TCLK	7	7	KY-332, 1-7	7
TBLANK	8	8	KY-332, 1-8	8
TSEQ	9	9	KY-332, 1-9	9
TQCLK	10	10	KY-332, 1-10	0
TWDT0	11	11	KY-332, 1-11	1
GND	12	12	KY-332, 1-12	2

	CN4			HARNESS CTRL 1
SCLK	1	1	KY-320, 1-1	1
BLANK	2	2	KY-320, 1-2	2
SEQ	3	3	KY-320, 1-3	3
IWLD	4	4	KY-320, 1-4	4
WDT	5	5	KY-320, 1-5	0
RDT	6	6	KY-320, 1-6	6
TCLK	7	7	KY-320, 1-7	7
TBLANK	8	8	KY-320, 1-8	8
TSEQ	9	9	KY-320, 1-9	9
TQCLK	10	10	KY-320, 1-10	0
TWDT1	11	11	KY-320, 1-11	1
GND	12	12	KY-320, 1-12	2

	CN5			HARNESS CTRL 1
SCLK	1	1	KY-321, 1-1	1
BLANK	2	2	KY-321, 1-2	2
SEQ	3	3	KY-321, 1-3	3
IWLD	4	4	KY-321, 1-4	4
WDT	5	5	KY-321, 1-5	0
RDT	6	6	KY-321, 1-6	6
TCLK	7	7	KY-321, 1-7	7
TBLANK	8	8	KY-321, 1-8	8
TSEQ	9	9	KY-321, 1-9	9
TQCLK	10	10	KY-321, 1-10	0
TWDT2	11	11	KY-321, 1-11	1
GND	12	12	KY-321, 1-12	2

	CN6			HARNESS CTRL 1
SCLK	1	1	KY-320, 1-1	1
BLANK	2	2	KY-320, 1-2	2
SEQ	3	3	KY-320, 1-3	3
IWLD	4	4	KY-320, 1-4	4
WDT	5	5	KY-320, 1-5	0
RDT	6	6	KY-320, 1-6	6
TCLK	7	7	KY-320, 1-7	7
TBLANK	8	8	KY-320, 1-8	8
TSEQ	9	9	KY-320, 1-9	9
TQCLK	10	10	KY-320, 1-10	0
TWDT3	11	11	KY-320, 1-11	1
GND	12	12	KY-320, 1-12	2

MAIN 232C

	CN17		
MTXD	1	1	TEST TERMINAL
MRXD	2	2	
GND	3	3	

SUB 232C

	CN18		
TXD0	1	1	TEST TERMINAL
RXD0	2	2	
GND	3	3	

JOY STICK

	CN11		
POS-X	1	1	RESERVED
POS-Y	2	2	
POS-Z	3	3	
GND	4	4	

HARNESS DC20		CN1		
1	CN-1148, 11-1	1	1	UNIT ERROR
2	CN-1148, 11-2	2	2	AC ERROR
3	CN-1148, 11-3	3	3	NC
4	CN-1148, 11-4	4	4	+5V
0	CN-1148, 11-5	5	5	+5V
6	CN-1148, 11-6	6	6	GND
7	CN-1148, 11-7	7	7	GND

	CN12	CN1	
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
TA10	5	5A	TA10
TA9	6	6A	TA9
TA8	7	7A	TA8
TA7	8	8A	TA7
TA6	9	9A	TA6
TA5	10	10A	TA5
TA4	11	11A	TA4
TA3	12	12A	TA3
TA2	13	13A	TA2
TA1	14	14A	TA1
TA0	15	15A	TA0
BUSY	16	16A	BUSY
GD31	17	17A	GD31
GD30	18	18A	GD30
GD29	19	19A	GD29
GD28	20	20A	GD28
GD27	21	21A	GD27
GD26	22	22A	GD26
GD25	23	23A	GD25
GD24	24	24A	GD24
RESET	25	25A	RESET
BRD	26	26A	BRD
BWR	27	27A	BWR
SIO CS2	28	28A	SIO CS2
SIO CS3	29	29A	SIO CS3
NC	30	30A	NC
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

	CN13	CN2	
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
RX4 (+)	5	5A	RX4 (+)
RX4 (-)	6	6A	RX4 (-)
TX4 (+)	7	7A	TX4 (+)
TX4 (-)	8	8A	TX4 (-)
RX5 (+)	9	9A	RX5 (+)
RX5 (-)	10	10A	RX5 (-)
TX5 (+)	11	11A	TX5 (+)
TX5 (-)	12	12A	TX5 (-)
RX6 (+)	13	13A	RX6 (+)
RX6 (-)	14	14A	RX6 (-)
TX6 (+)	15	15A	TX6 (+)
TX6 (-)	16	16A	TX6 (-)
RX7 (+)	17	17A	RX7 (+)
RX7 (-)	18	18A	RX7 (-)
TX7 (+)	19	19A	TX7 (+)
TX7 (-)	20	20A	TX7 (-)
CM20	21	21A	CM20
CM21	22	22A	CM21
CM30	23	23A	CM30
CM31	24	24A	CM31
ST2	25	25A	ST2
ST3	26	26A	ST3
SIO CONT2	27	27A	SIO CONT2
SIO CONT3	28	28A	SIO CONT3
SIO STS2	29	29A	SIO STS2
SIO STS3	30	30A	SIO STS3
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

	CN7			HARNESS CTRL 3
SCLK	1	1	KY-325, 1-1	1
BLANK	2	2	KY-325, 1-2	2
SEQ	3	3	KY-325, 1-3	3
IWLD	4	4	KY-325, 1-4	4
WDT	5	5	KY-325, 1-5	0
RDT	6	6	KY-325, 1-6	6
TCLK	7	7	KY-325, 1-7	7
TBLANK	8	8	KY-325, 1-8	8
TSEQ	9	9	KY-325, 1-9	9
TQCLK	10	10	KY-325, 1-10	0
TWDT4	11	11	KY-325, 1-11	1
GND	12	12	KY-325, 1-12	2

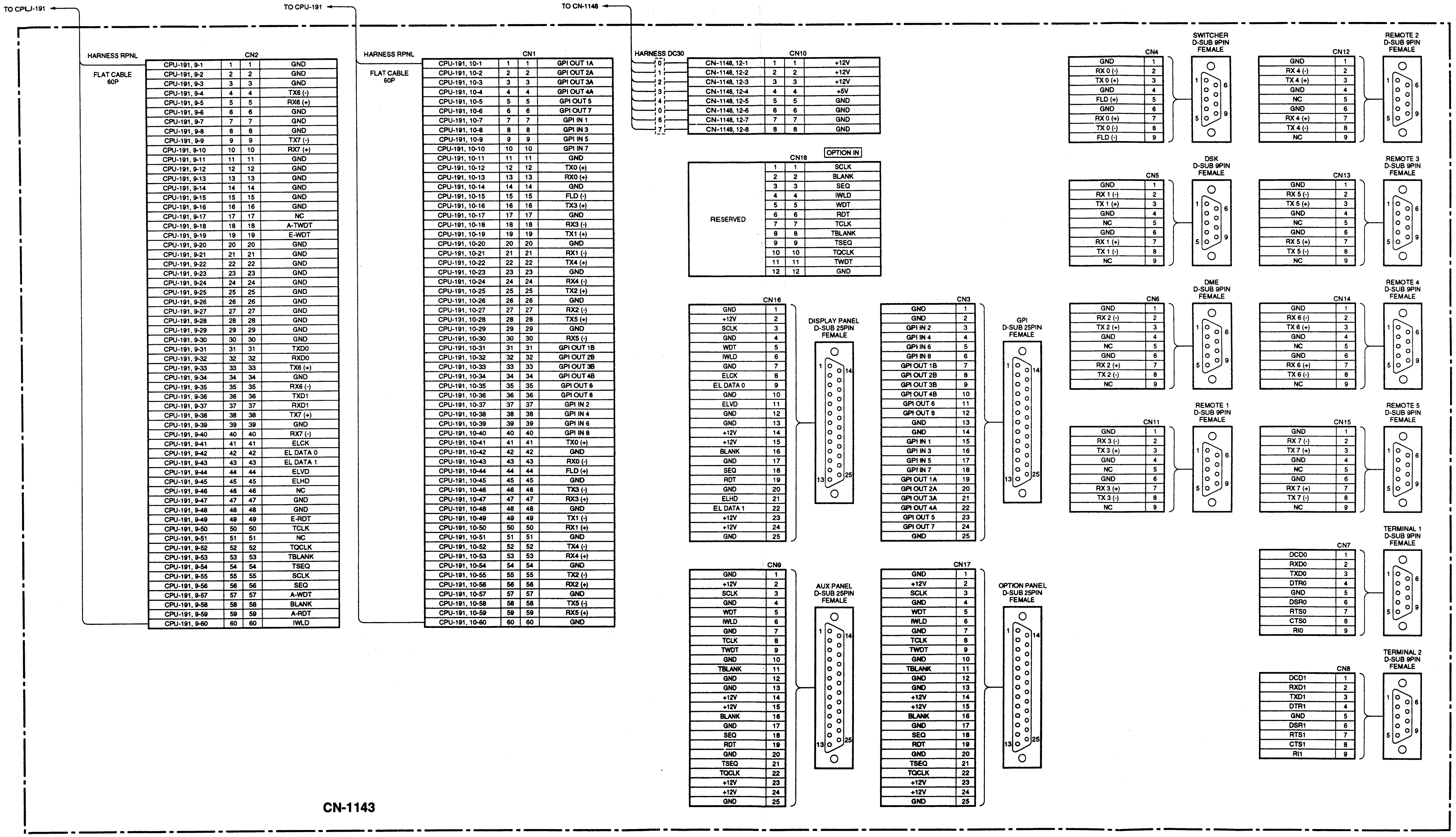
	CN8		
SIDE1	1	1	SIDE1
GND	2	2	GND
READ DAT	3	3	READ DAT
GND	4	4	GND
WRITE PROT	5	5	WRITE PROT
GND	6	6	GND
TRK00	7	7	TRK00
GND	8	8	GND
WG	9	9	WG
GND	10	10	GND
WD	11	11	WD
GND	12	12	GND
STEP	13	13	STEP
NC	14	14	NC
DIRECTION	15	15	DIRECTION
NC	16	16	NC
MOTOR ON	17	17	MOTOR ON
MDDIA	18	18	MDDIA
READY	19	19	READY
NC	20	20	NC
DISK CHANGE	21	21	DISK CHANGE
+5V	22	22	+5V
DRIVE SELECT	23	23	DRIVE SELECT
+5V	24	24	+5V
INDEX	25	25	INDEX
+5V	26	26	+5V

FRAME WIRING (2/9)

BKDS-7011/7012

2-16

BKDS-7011/7012 FRAME (3/9)


TO CPU-191
TO CPU-191
TO CN-1148
HARNESS RPNL
FLAT CABLE
60P
HARNESS RPNL
FLAT CABLE
60P
HARNESS DC30
0
1
2
3
4
0
6
7
OPTION IN
RESERVED
DISPLAY PANEL
D-SUB 25PIN
FEMALE
GPI
D-SUB 25PIN
FEMALE
AUX PANEL
D-SUB 25PIN
FEMALE
OPTION PANEL
D-SUB 25PIN
FEMALE
SWITCHER
D-SUB 9PIN
FEMALE
DSK
D-SUB 9PIN
FEMALE
DME
D-SUB 9PIN
FEMALE
REMOTE 1
D-SUB 9PIN
FEMALE
REMOTE 2
D-SUB 9PIN
FEMALE
REMOTE 3
D-SUB 9PIN
FEMALE
REMOTE 4
D-SUB 9PIN
FEMALE
REMOTE 5
D-SUB 9PIN
FEMALE
TERMINAL 1
D-SUB 9PIN
FEMALE
TERMINAL 2
D-SUB 9PIN
FEMALE
1
14
13
25
1
6
5
9
CN-1143

CN2

CPU-191, 9-1	1	1	GND
CPU-191, 9-2	2	2	GND
CPU-191, 9-3	3	3	GND
CPU-191, 9-4	4	4	TX6 (-)
CPU-191, 9-5	5	5	RX6 (+)
CPU-191, 9-6	6	6	GND
CPU-191, 9-7	7	7	GND
CPU-191, 9-8	8	8	GND
CPU-191, 9-9	9	9	TX7 (-)
CPU-191, 9-10	10	10	RX7 (+)
CPU-191, 9-11	11	11	GND
CPU-191, 9-12	12	12	GND
CPU-191, 9-13	13	13	GND
CPU-191, 9-14	14	14	GND
CPU-191, 9-15	15	15	GND
CPU-191, 9-16	16	16	GND
CPU-191, 9-17	17	17	NC
CPU-191, 9-18	18	18	A-TWDT
CPU-191, 9-19	19	19	E-WDT
CPU-191, 9-20	20	20	GND
CPU-191, 9-21	21	21	GND
CPU-191, 9-22	22	22	GND
CPU-191, 9-23	23	23	GND
CPU-191, 9-24	24	24	GND
CPU-191, 9-25	25	25	GND
CPU-191, 9-26	26	26	GND
CPU-191, 9-27	27	27	GND
CPU-191, 9-28	28	28	GND
CPU-191, 9-29	29	29	GND
CPU-191, 9-30	30	30	GND
CPU-191, 9-31	31	31	TXD0
CPU-191, 9-32	32	32	RXD0
CPU-191, 9-33	33	33	TX6 (+)
CPU-191, 9-34	34	34	GND
CPU-191, 9-35	35	35	RX6 (-)
CPU-191, 9-36	36	36	TXD1
CPU-191, 9-37	37	37	RXD1
CPU-191, 9-38	38	38	TX7 (+)
CPU-191, 9-39	39	39	GND
CPU-191, 9-40	40	40	RX7 (-)
CPU-191, 9-41	41	41	ELCK
CPU-191, 9-42	42	42	EL DATA 0
CPU-191, 9-43	43	43	EL DATA 1
CPU-191, 9-44	44	44	ELVD
CPU-191, 9-45	45	45	ELHD
CPU-191, 9-46	46	46	NC
CPU-191, 9-47	47	47	GND
CPU-191, 9-48	48	48	GND
CPU-191, 9-49	49	49	E-RDT
CPU-191, 9-50	50	50	TCLK
CPU-191, 9-51	51	51	NC
CPU-191, 9-52	52	52	TQCLK
CPU-191, 9-53	53	53	TBLANK
CPU-191, 9-54	54	54	TSEQ
CPU-191, 9-55	55	55	SCLK
CPU-191, 9-56	56	56	SEQ
CPU-191, 9-57	57	57	A-WDT
CPU-191, 9-58	58	58	BLANK
CPU-191, 9-59	59	59	A-RDT
CPU-191, 9-60	60	60	IWLD

CN1

CPU-191, 10-1	1	1	GPI OUT 1A
CPU-191, 10-2	2	2	GPI OUT 2A
CPU-191, 10-3	3	3	GPI OUT 3A
CPU-191, 10-4	4	4	GPI OUT 4A
CPU-191, 10-5	5	5	GPI OUT 5
CPU-191, 10-6	6	6	GPI OUT 7
CPU-191, 10-7	7	7	GPI IN 1
CPU-191, 10-8	8	8	GPI IN 3
CPU-191, 10-9	9	9	GPI IN 5
CPU-191, 10-10	10	10	GPI IN 7
CPU-191, 10-11	11	11	GND
CPU-191, 10-12	12	12	TX0 (+)
CPU-191, 10-13	13	13	RX0 (+)
CPU-191, 10-14	14	14	GND
CPU-191, 10-15	15	15	FLD (-)
CPU-191, 10-16	16	16	TX3 (+)
CPU-191, 10-17	17	17	GND
CPU-191, 10-18	18	18	RX3 (-)
CPU-191, 10-19	19	19	TX1 (+)
CPU-191, 10-20	20	20	GND
CPU-191, 10-21	21	21	RX1 (-)
CPU-191, 10-22	22	22	TX4 (+)
CPU-191, 10-23	23	23	GND
CPU-191, 10-24	24	24	RX4 (-)
CPU-191, 10-25	25	25	TX2 (+)
CPU-191, 10-26	26	26	GND
CPU-191, 10-27	27	27	RX2 (-)
CPU-131, 10-28	28	28	TX5 (+)
CPU-191, 10-29	29	29	GND
CPU-191, 10-30	30	30	RX5 (-)
CPU-191, 10-31	31	31	GPI OUT 1B
CPU-191, 10-32	32	32	GPI OUT 2B
CPU-191, 10-33	33	33	GPI OUT 3B
CPU-191, 10-34	34	34	GPI OUT 4B
CPU-191, 10-35	35	35	GPI OUT 6
CPU-191, 10-36	36	36	GPI OUT 8
CPU-191, 10-37	37	37	GPI IN 2
CPU-191, 10-38	38	38	GPI IN 4
CPU-191, 10-39	39	39	GPI IN 6
CPU-191, 10-40	40	40	GPI IN 8
CPU-191, 10-41	41	41	TX0 (+)
CPU-191, 10-42	42	42	GND
CPU-191, 10-43	43	43	RX0 (-)
CPU-191, 10-44	44	44	FLD (+)
CPU-191, 10-45	45	45	GND
CPU-191, 10-46	46	46	TX3 (-)
CPU-191, 10-47	47	47	RX3 (+)
CPU-191, 10-48	48	48	GND
CPU-191, 10-49	49	49	TX1 (-)
CPU-191, 10-50	50	50	RX1 (+)
CPU-191, 10-51	51	51	GND
CPU-191, 10-52	52	52	TX4 (-)
CPU-191, 10-53	53	53	RX4 (+)
CPU-191, 10-54	54	54	GND
CPU-191, 10-55	55	55	TX2 (-)
CPU-191, 10-56	56	56	RX2 (+)
CPU-191, 10-57	57	57	GND
CPU-191, 10-58	58	58	TX5 (-)
CPU-191, 10-59	59	59	RX5 (+)
CPU-191, 10-60	60	60	GND

CN10

CN-1148, 12-1	1	1	+12V
CN-1148, 12-2	2	2	+12V
CN-1148, 12-3	3	3	+12V
CN-1148, 12-4	4	4	+5V
CN-1148, 12-5	5	5	GND
CN-1148, 12-6	6	6	GND
CN-1148, 12-7	7	7	GND
CN-1148, 12-8	8	8	GND

CN18

RESERVED	1	1	SCLK
	2	2	BLANK
	3	3	SEQ
	4	4	IWLD
	5	5	WDT
	6	6	RDT
	7	7	TCLK
	8	8	TBLANK
	9	9	TSEQ
	10	10	TQCLK
	11	11	TWDT
	12	12	GND

CN16

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
ELCK	8
EL DATA 0	9
GND	10
ELVD	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
ELHD	21
EL DATA 1	22
+12V	23
+12V	24
GND	25

CN3

GND	1
GND	2
GPI IN 2	3
GPI IN 4	4
GPI IN 6	5
GPI IN 8	6
GPI OUT 1B	7
GPI OUT 2B	8
GPI OUT 3B	9
GPI OUT 4B	10
GPI OUT 6	11
GPI OUT 8	12
GND	13
GND	14
GPI IN 1	15
GPI IN 3	16
GPI IN 5	17
GPI IN 7	18
GPI OUT 1A	19
GPI OUT 2A	20
GPI OUT 3A	21
GPI OUT 4A	22
GPI OUT 5	23
GPI OUT 7	24
GND	25

CN9

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN17

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN4

GND	1
RX 0 (-)	2
TX 0 (+)	3
GND	4
FLD (+)	5
GND	6
RX 0 (+)	7
TX 0 (-)	8
FLD (-)	9

CN5

GND	1
RX 1 (-)	2
TX 1 (+)	3
GND	4
NC	5
GND	6
RX 1 (+)	7
TX 1 (-)	8
NC	9

CN6

GND	1
RX 2 (-)	2
TX 2 (+)	3
GND	4
NC	5
GND	6
RX 2 (+)	7
TX 2 (-)	8
NC	9

CN11

GND	1
RX 3 (-)	2
TX 3 (+)	3
GND	4
NC	5
GND	6
RX 3 (+)	7
TX 3 (-)	8
NC	9

CN12

GND	1
RX 4 (-)	2
TX 4 (+)	3
GND	4
NC	5
GND	6
RX 4 (+)	7
TX 4 (-)	8
NC	9

CN13

GND	1
RX 5 (-)	2
TX 5 (+)	3
GND	4
NC	5
GND	6
RX 5 (+)	7
TX 5 (-)	8
NC	9

CN14

GND	1
RX 6 (-)	2
TX 6 (+)	3
GND	4
NC	5
GND	6
RX 6 (+)	7
TX 6 (-)	8
NC	9

CN15

GND	1
RX 7 (-)	2
TX 7 (+)	3
GND	4
NC	5
GND	6
RX 7 (+)	7
TX 7 (-)	8
NC	9

CN7

DCD0	1
RXD0	2
TXD0	3
DTR0	4
GND	5
DSR0	6
RTS0	7
CTS0	8
RI0	9

CN8

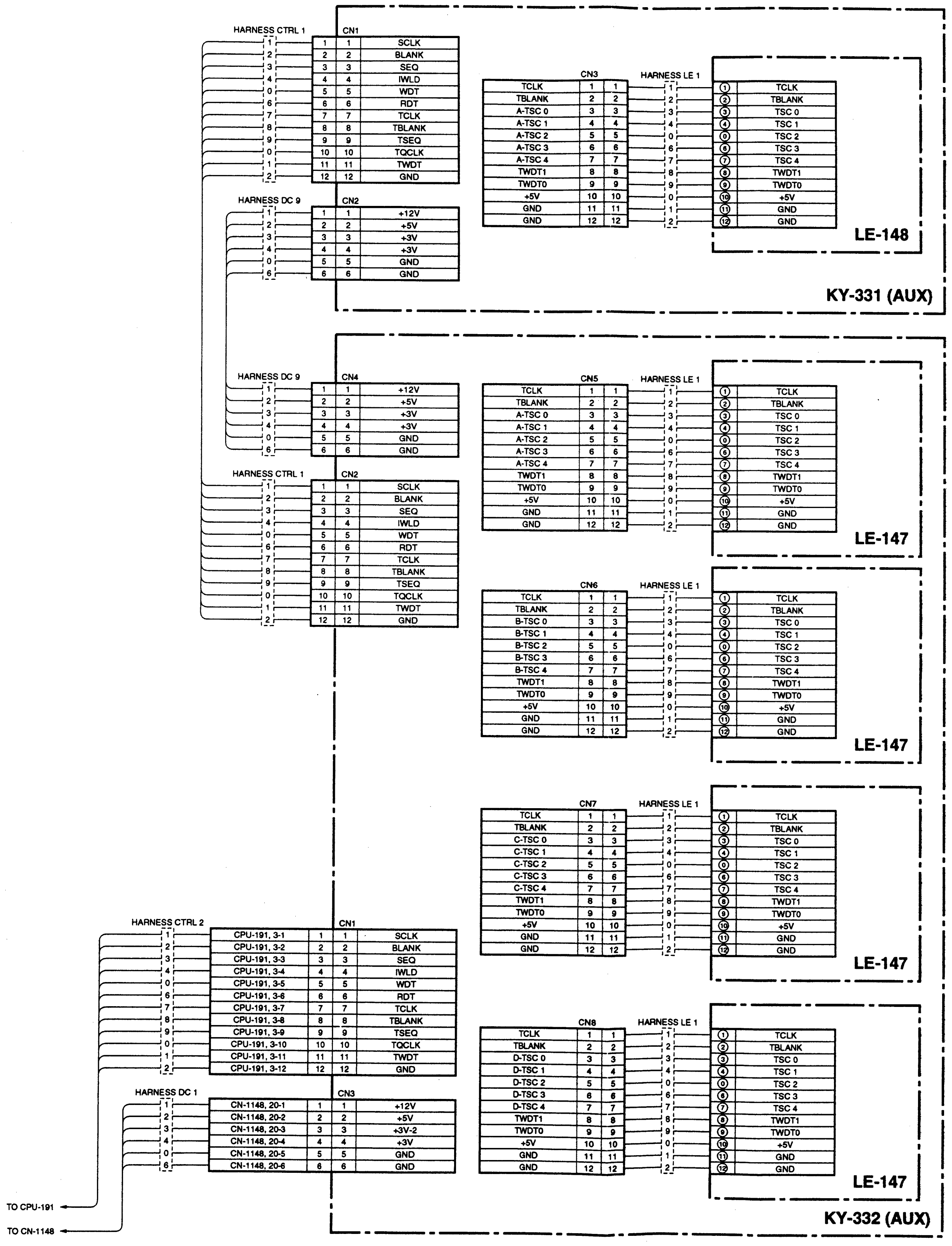
DCD1	1
RXD1	2
TXD1	3
DTR1	4
GND	5
DSR1	6
RTS1	7
CTS1	8
RI1	9

FRAME WIRING (3/9)

BKDS-7011/7012

2-17

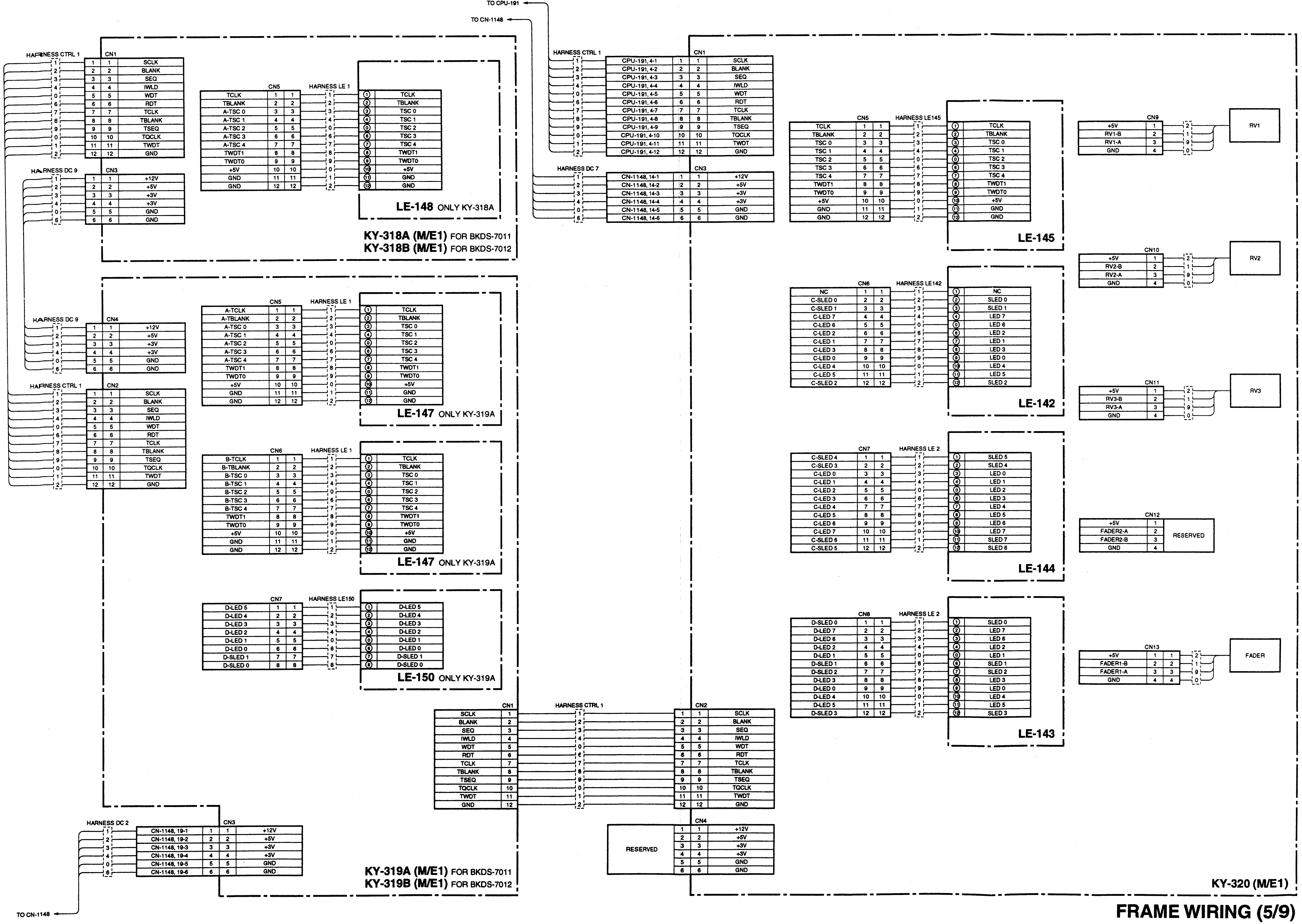
BKDS-7011/7012 FRAME (4/9)


HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN2
+12V
+5V
+3V
GND
CN3
HARNESS LE 1
A-TSC 0
A-TSC 1
A-TSC 2
A-TSC 3
A-TSC 4
TWDT1
TWDT0
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
LE-148
KY-331 (AUX)
CN4
CN5
CN6
B-TSC 0
B-TSC 1
B-TSC 2
B-TSC 3
B-TSC 4
CN7
C-TSC 0
C-TSC 1
C-TSC 2
C-TSC 3
C-TSC 4
CN8
D-TSC 0
D-TSC 1
D-TSC 2
D-TSC 3
D-TSC 4
LE-147
HARNESS CTRL 2
CPU-191, 3-1
CPU-191, 3-12
HARNESS DC 1
CN-1148, 20-1
CN-1148, 20-6
+3V-2
KY-332 (AUX)
TO CPU-191
TO CN-1148

FRAME WIRING (4/9)

BKDS-7011/7012

BKDS-7011/7012 FRAME (5/9)

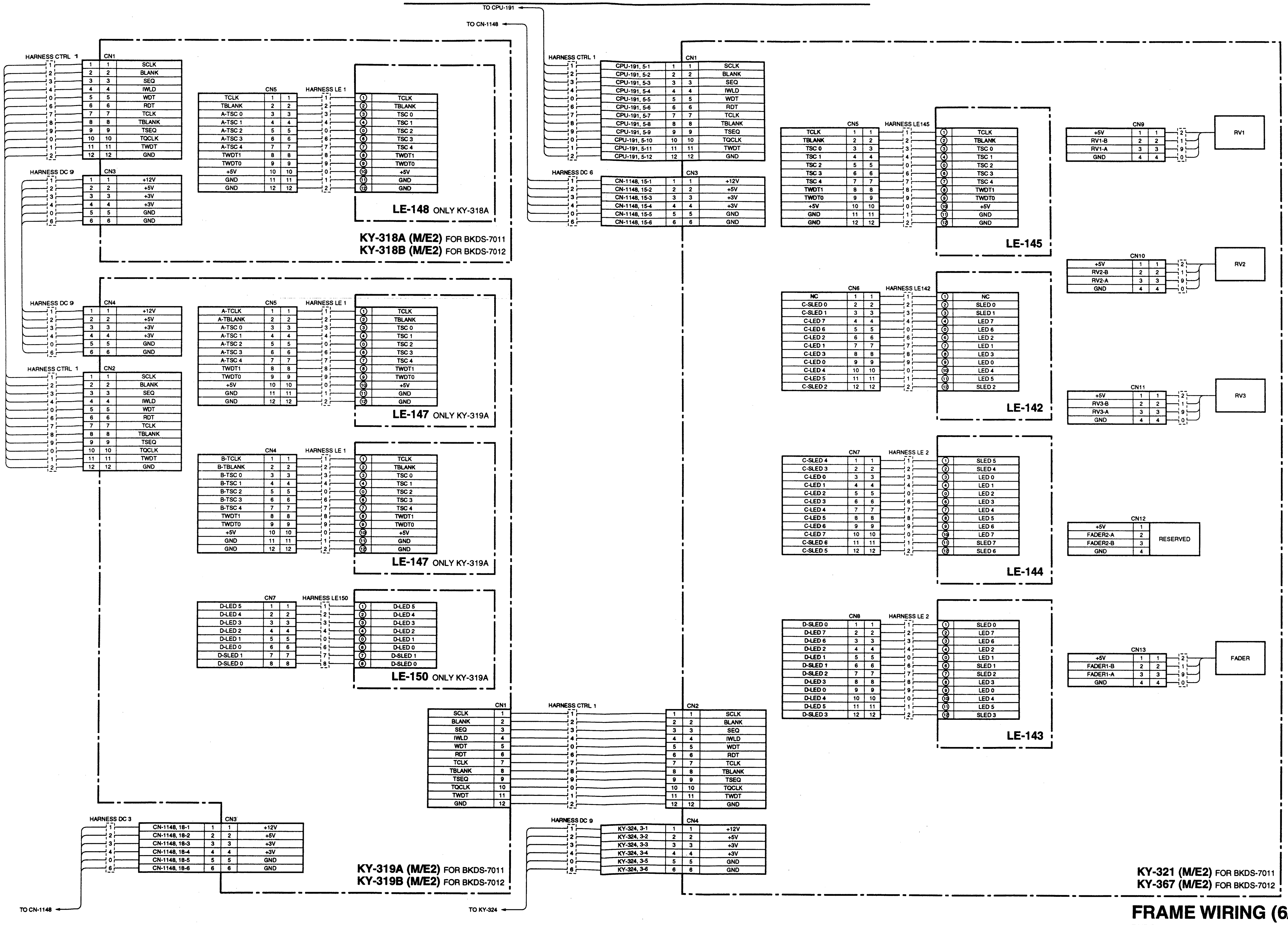

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
GND
CN5
HARNESS LE 1
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
LE-148 ONLY KY-318A
KY-318A (M/E1) FOR BKDS-7011
KY-318B (M/E1) FOR BKDS-7012
CN4
CN2
A-TCLK
A-TBLANK
A-TSC 0
LE-147 ONLY KY-319A
CN6
B-TCLK
B-TBLANK
B-TSC 0
LE-147 ONLY KY-319A
CN7
HARNESS LE150
D-LED 5
D-LED 4
D-LED 3
D-LED 2
D-LED 1
D-LED 0
D-SLED 1
D-SLED 0
LE-150 ONLY KY-319A
HARNESS DC 2
CN-1148, 19-1
CN-1148, 19-6
KY-319A (M/E1) FOR BKDS-7011
KY-319B (M/E1) FOR BKDS-7012
TO CN-1148
CPU-191, 4-1
CPU-191, 4-12
HARNESS DC 7
CN-1148, 14-1
CN-1148, 14-6
HARNESS LE145
LE-145
HARNESS LE142
NC
C-SLED 0
C-SLED 1
C-LED 7
LE-142
HARNESS LE 2
C-SLED 4
C-SLED 3
LE-144
CN8
D-SLED 0
D-LED 7
D-SLED 3
LE-143
CN9
+5V
RV1-B
RV1-A
RV1
CN10
RV2-B
RV2-A
RV2
CN11
RV3-B
RV3-A
RV3
CN12
FADER2-A
FADER2-B
RESERVED
CN13
FADER1-B
FADER1-A
FADER
RESERVED
KY-320 (M/E1)

FRAME WIRING (5/9)

BKDS-7011/7012

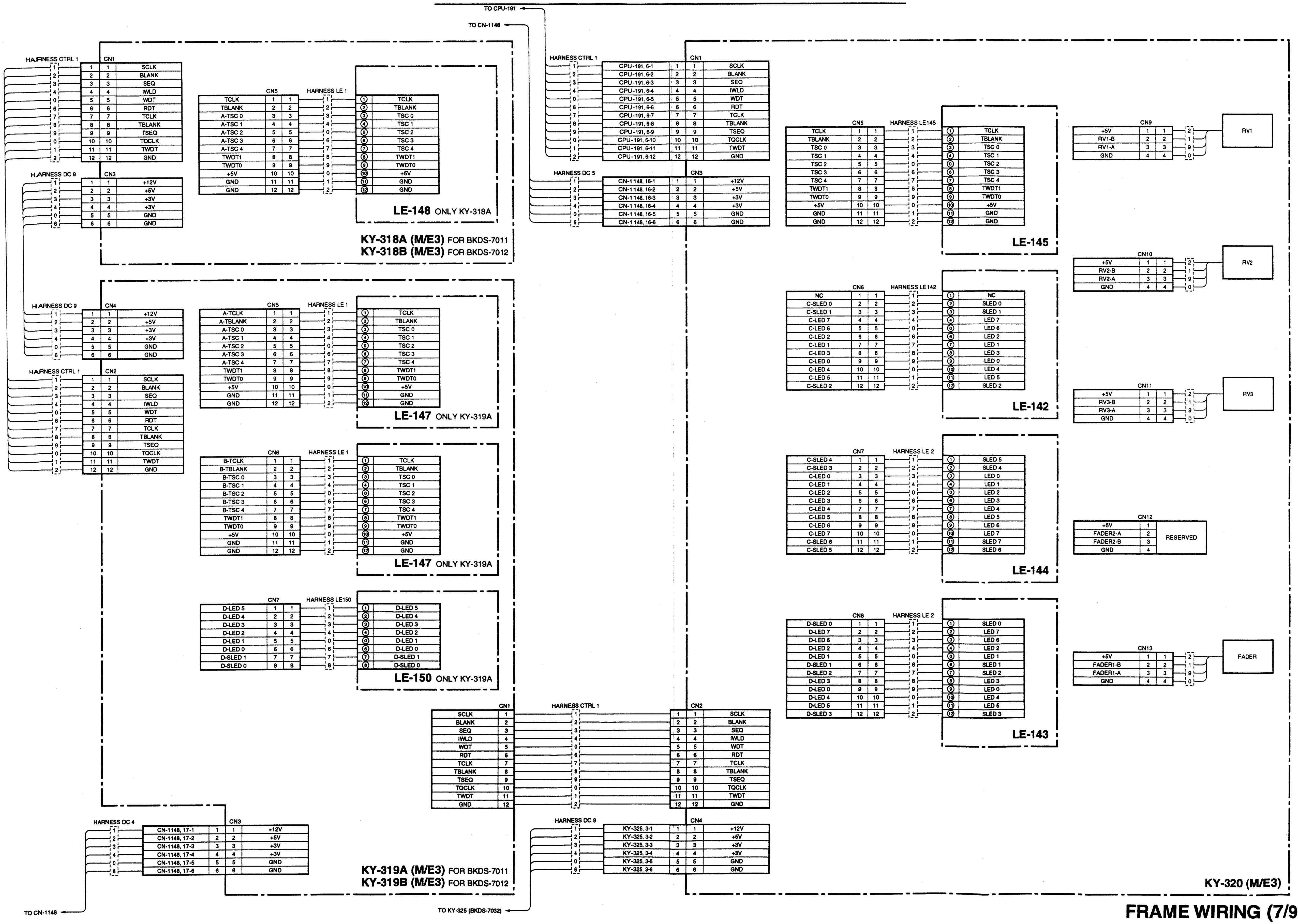
2-19

BKDS-7011/7012 FRAME (6/9)


TO CPU-191
TO CN-1148
HARNESS CTRL 1
HARNESS DC 9
HARNESS DC 6
HARNESS DC 3
HARNESS LE 1
HARNESS LE 2
HARNESS LE145
HARNESS LE142
HARNESS LE150
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
LE-148 ONLY KY-318A
KY-318A (M/E2) FOR BKDS-7011
KY-318B (M/E2) FOR BKDS-7012
LE-147 ONLY KY-319A
LE-147 ONLY KY-319A
LE-150 ONLY KY-319A
KY-319A (M/E2) FOR BKDS-7011
KY-319B (M/E2) FOR BKDS-7012
LE-145
LE-142
LE-144
LE-143
RV1
RV2
RV3
RESERVED
FADER
KY-321 (M/E2) FOR BKDS-7011
KY-367 (M/E2) FOR BKDS-7012
TO CN-1148
TO KY-324

FRAME WIRING (6/9)
BKDS-7011/7012

BKDS-7011/7012 FRAME (7/9)

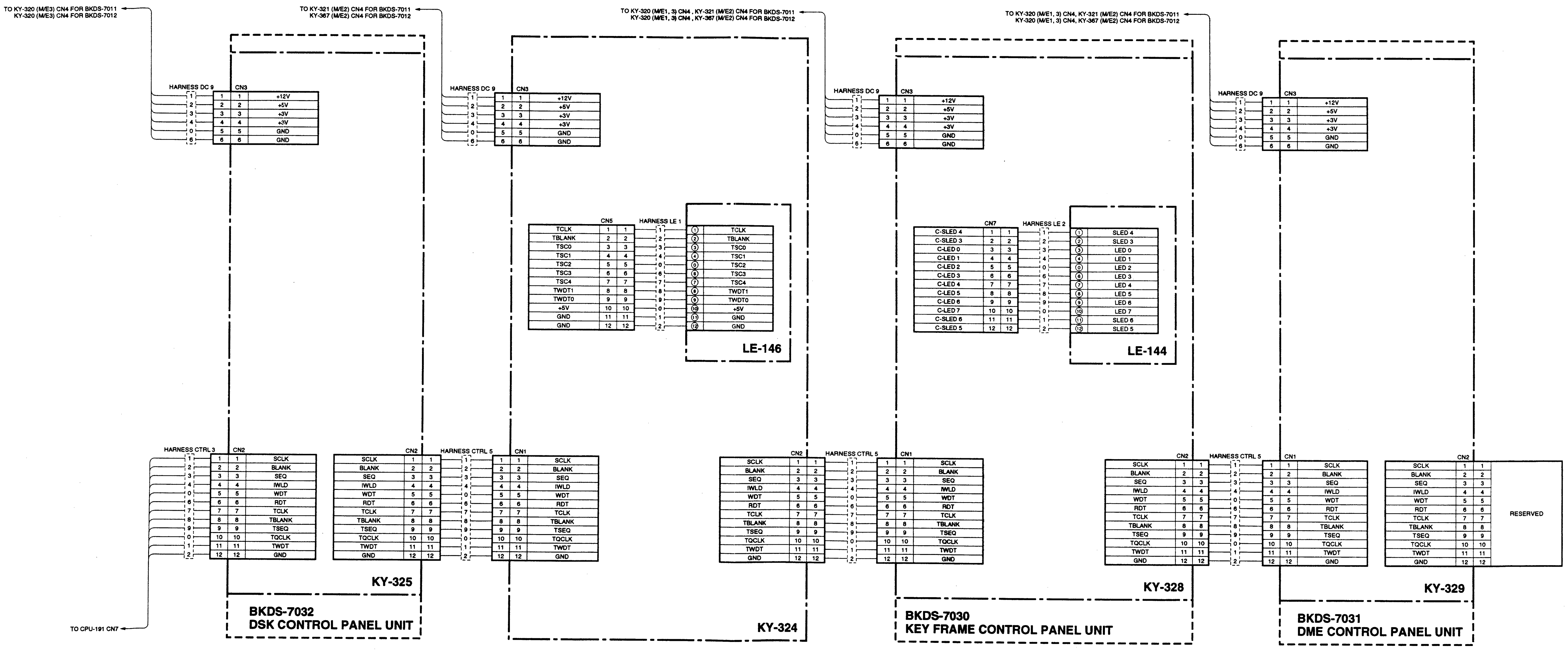

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
HARNESS DC 9
CN3
CN5
HARNESS LE 1
LE-148 ONLY KY-318A
KY-318A (M/E3) FOR BKDS-7011
KY-318B (M/E3) FOR BKDS-7012
CN4
CN2
LE-147 ONLY KY-319A
CN6
LE-147 ONLY KY-319A
CN7
HARNESS LE150
LE-150 ONLY KY-319A
HARNESS DC 4
KY-319A (M/E3) FOR BKDS-7011
KY-319B (M/E3) FOR BKDS-7012
TO CN-1148
TO KY-325 (BKDS-7032)
HARNESS LE145
LE-145
HARNESS LE142
LE-142
HARNESS LE 2
LE-144
CN8
LE-143
CN9
RV1
CN10
RV2
CN11
RV3
CN12
RESERVED
CN13
FADER
KY-320 (M/E3)

FRAME WIRING (7/9)

BKDS-7011/7012

2-21

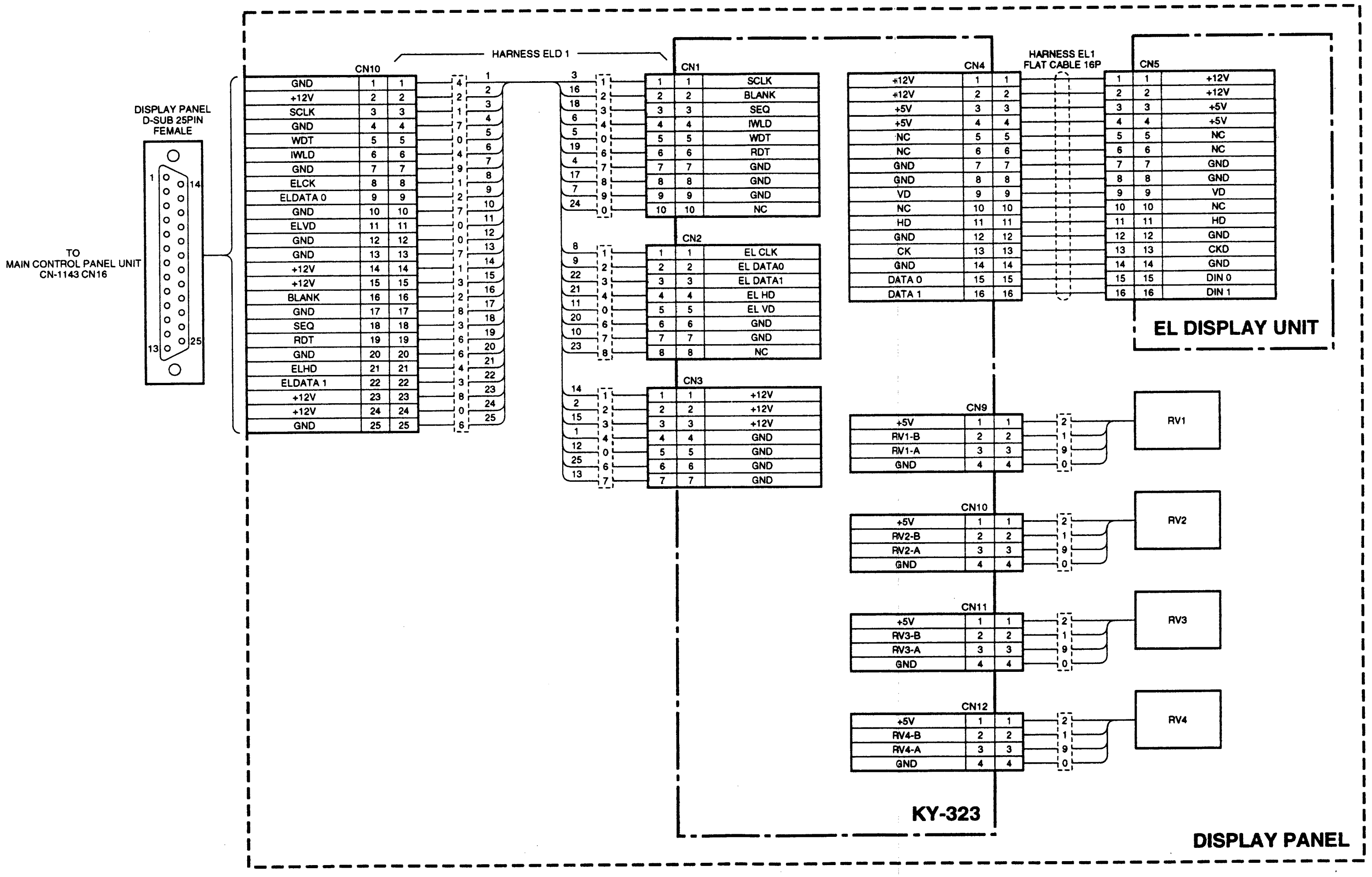
BKDS-7011/7012 FRAME (8/9)


TO KY-320 (M/E3) CN4 FOR BKDS-7011
KY-320 (M/E3) CN4 FOR BKDS-7012
TO KY-321 (M/E2) CN4 FOR BKDS-7011
KY-367 (M/E2) CN4 FOR BKDS-7012
TO KY-320 (M/E1, 3) CN4, KY-321 (M/E2) CN4 FOR BKDS-7011
KY-320 (M/E1, 3) CN4, KY-367 (M/E2) CN4 FOR BKDS-7012
TO KY-320 (M/E1, 3) CN4, KY-321 (M/E2) CN4 FOR BKDS-7011
KY-320 (M/E1, 3) CN4, KY-367 (M/E2) CN4 FOR BKDS-7012
HARNESS DC 9
CN3
+12V
+5V
+3V
+3V
GND
GND
CN5
HARNESS LE 1
TCLK
TBLANK
TSC0
TSC1
TSC2
TSC3
TSC4
TWDT1
TWDT0
+5V
GND
GND
LE-146
CN7
HARNESS LE 2
C-SLED 4
C-SLED 3
C-LED 0
C-LED 1
C-LED 2
C-LED 3
C-LED 4
C-LED 5
C-LED 6
C-LED 7
C-SLED 6
C-SLED 5
SLED 4
SLED 3
LED 0
LED 1
LED 2
LED 3
LED 4
LED 5
LED 6
LED 7
SLED 6
SLED 5
LE-144
HARNESS CTRL 3
HARNESS CTRL 5
CN1
CN2
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
RESERVED
KY-325
KY-324
KY-328
KY-329
TO CPU-191 CN7
BKDS-7032
DSK CONTROL PANEL UNIT
BKDS-7030
KEY FRAME CONTROL PANEL UNIT
BKDS-7031
DME CONTROL PANEL UNIT

FRAME WIRING (8/9)

BKDS-7011/7012
BKDS-7030/7031/7032

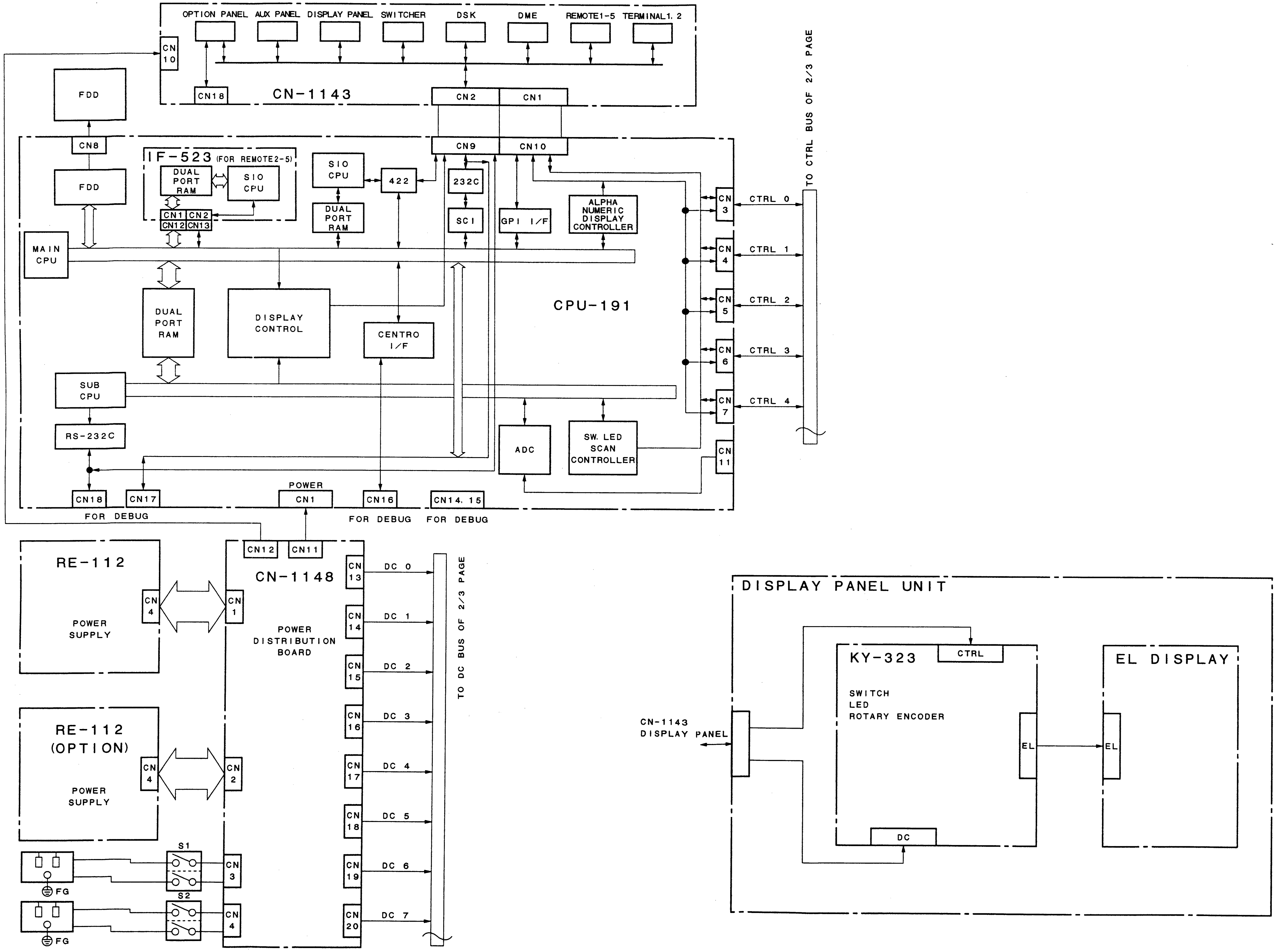
2-22


TO
MAIN CONTROL PANEL UNIT
CN-1143 CN16
DISPLAY PANEL
D-SUB 25PIN
FEMALE
1
14
13
25
CN10
GND
+12V
SCLK
GND
WDT
IWLD
GND
ELCK
ELDATA 0
GND
ELVD
GND
GND
+12V
+12V
BLANK
GND
SEQ
RDT
GND
ELHD
ELDATA 1
+12V
+12V
GND
HARNESS ELD 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
GND
GND
GND
NC
CN2
EL CLK
EL DATA0
EL DATA1
EL HD
EL VD
GND
GND
NC
CN3
+12V
+12V
+12V
GND
GND
GND
GND
CN4
+12V
+12V
+5V
+5V
NC
NC
GND
GND
VD
NC
HD
GND
CK
GND
DATA 0
DATA 1
HARNESS EL1
FLAT CABLE 16P
CN5
+12V
+12V
+5V
+5V
NC
NC
GND
GND
VD
NC
HD
GND
CKD
GND
DIN 0
DIN 1
EL DISPLAY UNIT
CN9
+5V
RV1-B
RV1-A
GND
RV1
CN10
+5V
RV2-B
RV2-A
GND
RV2
CN11
+5V
RV3-B
RV3-A
GND
RV3
CN12
+5V
RV4-B
RV4-A
GND
RV4
KY-323
DISPLAY PANEL

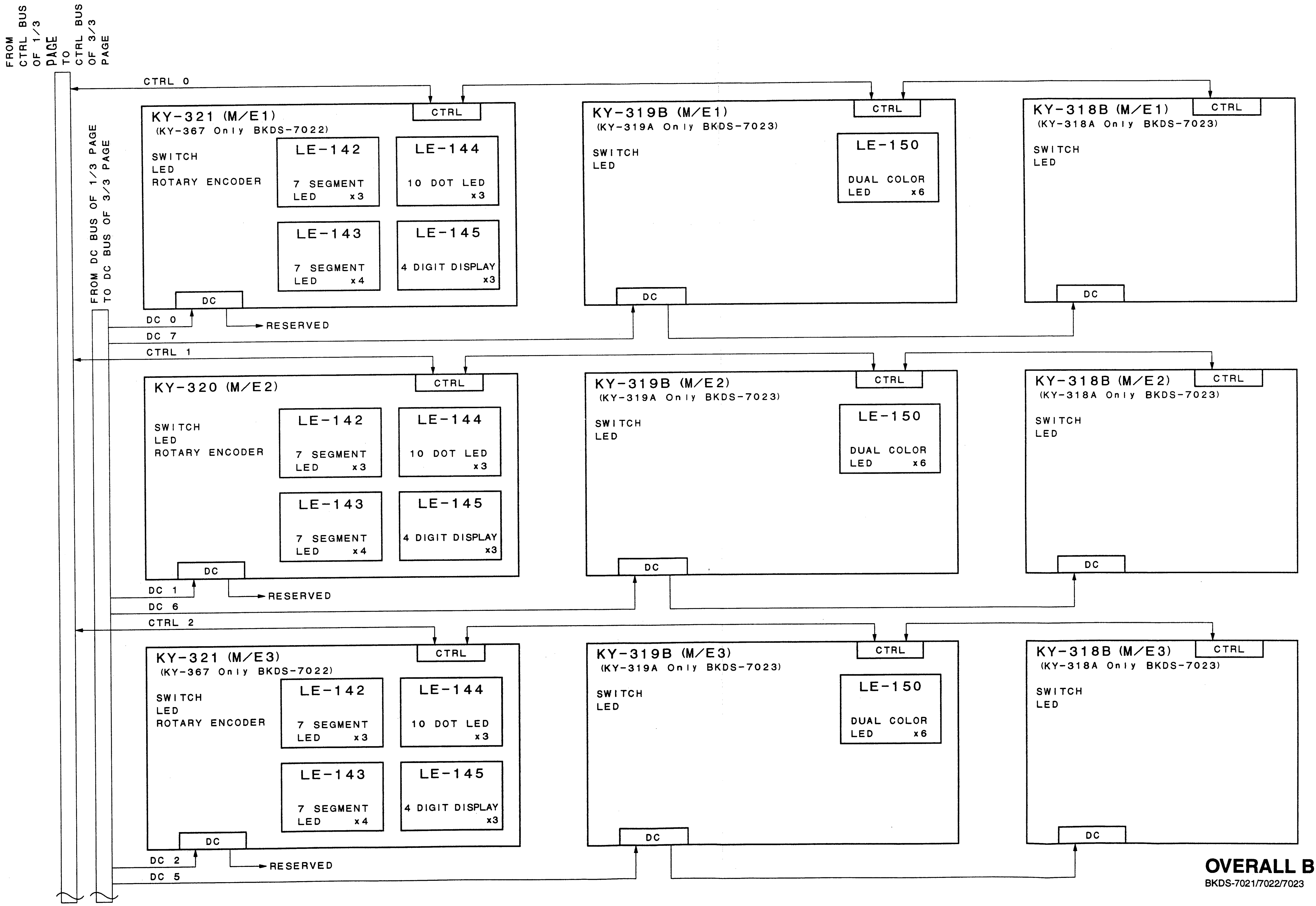
FRAME WIRING (9/9)

BKDS-7011/7012

2-5. BKDS-7021/7022/7023 BKDS-7021/7022/7023 OVERALL BLOCK


OPTION PANEL
AUX PANEL
DISPLAY PANEL
SWITCHER
DSK
DME
REMOTE1-5
TERMINAL1, 2
CN 10
CN18
CN-1143
CN2
CN1
FDD
CN8
FDD
IF-523 (FOR REMOTE2-5)
DUAL PORT RAM
SIO CPU
CN1 CN2
CN12 CN13
SIO CPU
422
DUAL PORT RAM
CN9
CN10
232C
SCI
GPI I/F
ALPHA NUMERIC DISPLAY CONTROLLER
MAIN CPU
DUAL PORT RAM
DISPLAY CONTROL
CENTRO I/F
CPU-191
SUB CPU
RS-232C
ADC
SW. LED SCAN CONTROLLER
CN 3
CN 4
CN 5
CN 6
CN 7
CN 11
CTRL 0
CTRL 1
CTRL 2
CTRL 3
CTRL 4
TO CTRL BUS OF 2/3 PAGE
CN18
CN17
FOR DEBUG
POWER
CN1
CN16
CN14, 15
FOR DEBUG
FOR DEBUG
RE-112
POWER SUPPLY
CN 4
CN 1
CN12
CN11
CN-1148
POWER DISTRIBUTION BOARD
RE-112 (OPTION)
POWER SUPPLY
CN 4
CN 2
S1
S2
FG
FG
CN 3
CN 4
CN 13
CN 14
CN 15
CN 16
CN 17
CN 18
CN 19
CN 20
DC 0
DC 1
DC 2
DC 3
DC 4
DC 5
DC 6
DC 7
TO DC BUS OF 2/3 PAGE
DISPLAY PANEL UNIT
CN-1143
DISPLAY PANEL
KY-323
CTRL
SWITCH
LED
ROTARY ENCODER
EL
DC
EL DISPLAY
EL

BKDS-7021/7022/7023 OVERALL (2/3)

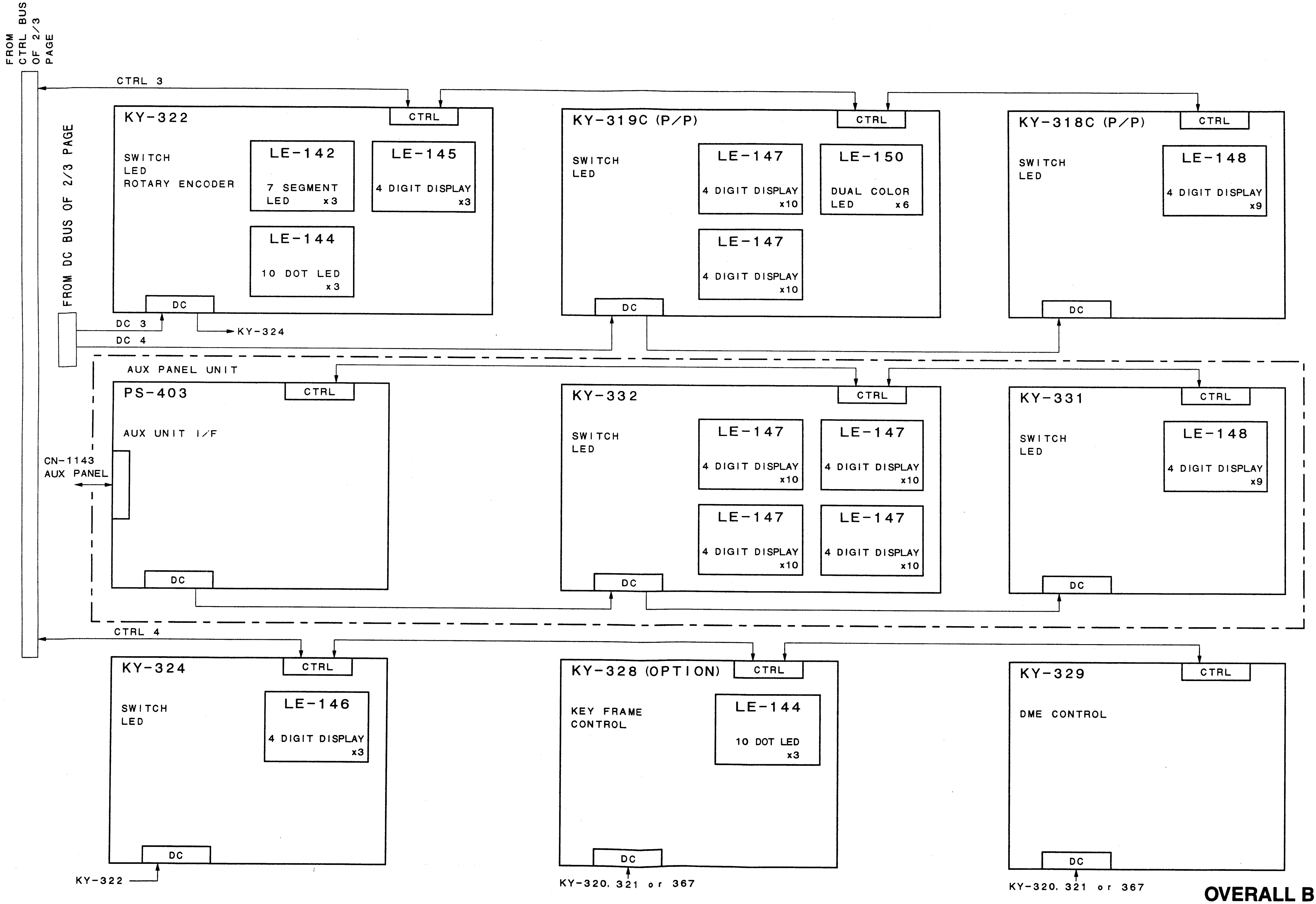

FROM CTRL BUS OF 1/3 PAGE
TO CTRL BUS OF 3/3 PAGE
FROM DC BUS OF 1/3 PAGE
TO DC BUS OF 3/3 PAGE
CTRL 0
CTRL 1
CTRL 2
DC 0
DC 7
DC 1
DC 6
DC 2
DC 5
RESERVED
RESERVED
RESERVED
KY-321 (M/E1)
(KY-367 Only BKDS-7022)
SWITCH
LED
ROTARY ENCODER
CTRL
DC
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
KY-319B (M/E1)
(KY-319A Only BKDS-7023)
SWITCH
LED
CTRL
DC
LE-150
DUAL COLOR LED x6
KY-318B (M/E1)
(KY-318A Only BKDS-7023)
SWITCH
LED
CTRL
DC
KY-320 (M/E2)
SWITCH
LED
ROTARY ENCODER
CTRL
DC
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
KY-319B (M/E2)
(KY-319A Only BKDS-7023)
SWITCH
LED
CTRL
DC
LE-150
DUAL COLOR LED x6
KY-318B (M/E2)
(KY-318A Only BKDS-7023)
SWITCH
LED
CTRL
DC
KY-321 (M/E3)
(KY-367 Only BKDS-7022)
SWITCH
LED
ROTARY ENCODER
CTRL
DC
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
KY-319B (M/E3)
(KY-319A Only BKDS-7023)
SWITCH
LED
CTRL
DC
LE-150
DUAL COLOR LED x6
KY-318B (M/E3)
(KY-318A Only BKDS-7023)
SWITCH
LED
CTRL
DC

OVERALL BLOCK (2/3)

BKDS-7021/7022/7023

2-25

BKDS-7021/7022/7023 OVERALL (3/3)

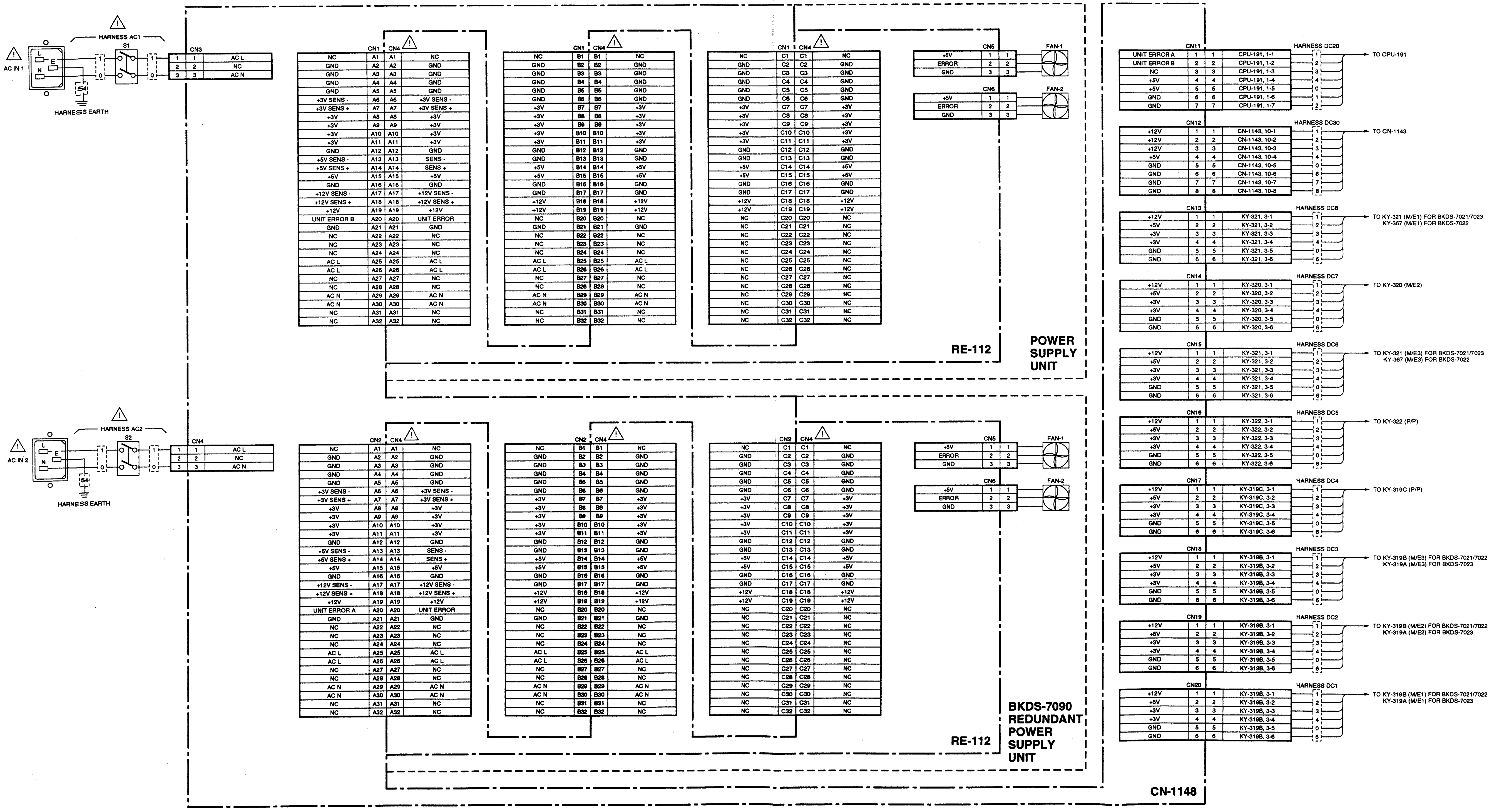

FROM CTRL BUS OF 2/3 PAGE
CTRL 3
FROM DC BUS OF 2/3 PAGE
KY-322
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-145
4 DIGIT DISPLAY x3
LE-144
10 DOT LED x3
DC
DC 3
DC 4
KY-324
KY-319C (P/P)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318C (P/P)
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
AUX PANEL UNIT
PS-403
CTRL
AUX UNIT I/F
CN-1143
AUX PANEL
DC
KY-332
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
DC
KY-331
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
CTRL 4
KY-324
CTRL
SWITCH
LED
LE-146
4 DIGIT DISPLAY x3
DC
KY-322
KY-328 (OPTION)
CTRL
KEY FRAME CONTROL
LE-144
10 DOT LED x3
DC
KY-320, 321 or 367
KY-329
CTRL
DME CONTROL
DC
KY-320, 321 or 367

OVERALL BLOCK (3/3)

BKDS-7021/7022/7023
BKDS-7030/7031

BKDS-7021/7022/7023 FRAME (1/10)

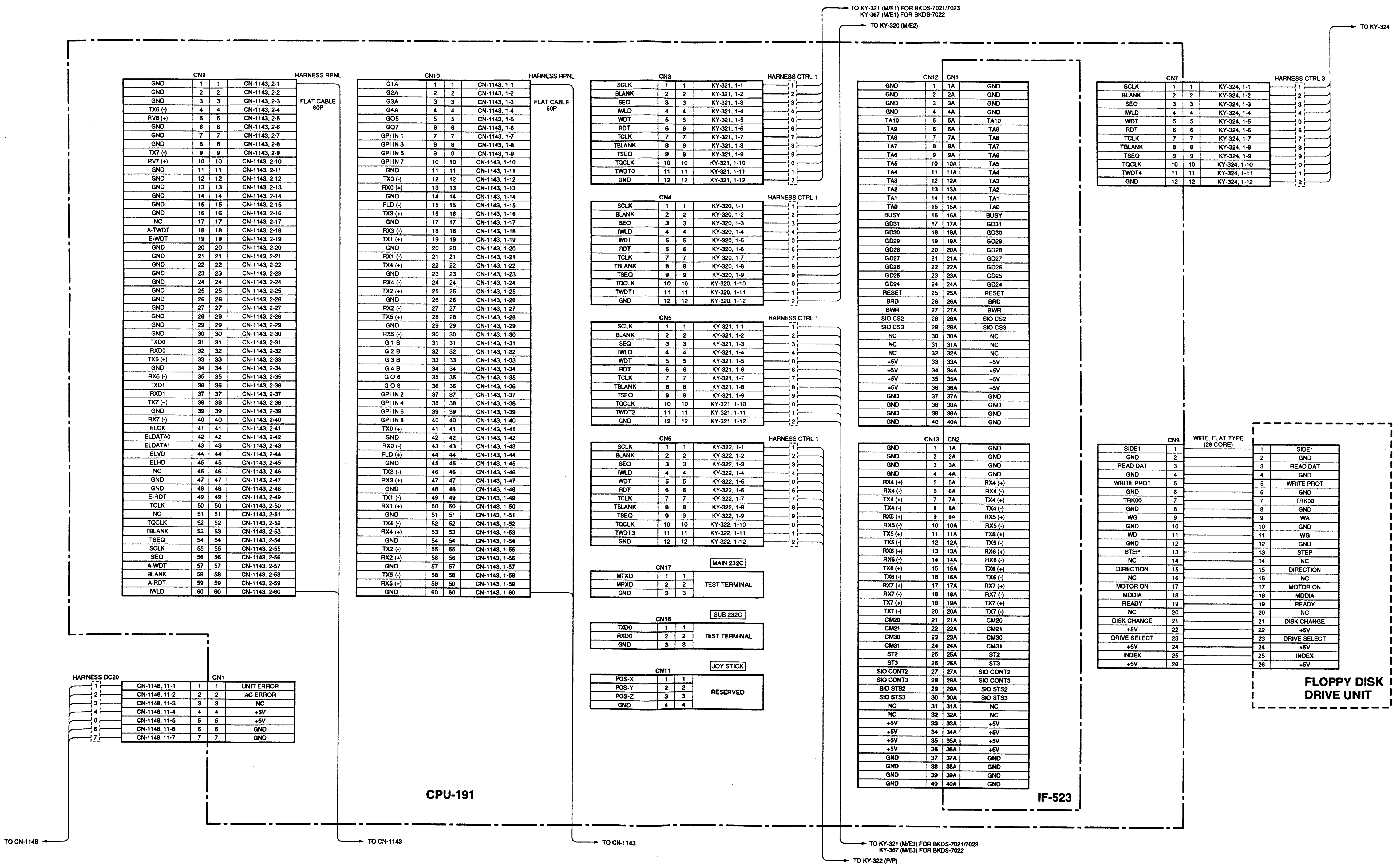
BKDS-7021/7022/7023 FRAME WIRING


AC IN 1
HARNESS AC1
S1
HARNESS EARTH
AC IN 2
HARNESS AC2
S2
CN3
CN4
AC L
NC
AC N
CN1
CN2
CN4
CN5
CN6
+5V
ERROR
GND
FAN-1
FAN-2
RE-112
POWER SUPPLY UNIT
BKDS-7090 REDUNDANT POWER SUPPLY UNIT
CN-1148
CN11
UNIT ERROR A
UNIT ERROR B
HARNESS DC20
TO CPU-191
CN12
HARNESS DC30
TO CN-1143
CN13
HARNESS DC8
TO KY-321 (M/E1) FOR BKDS-7021/7023
KY-367 (M/E1) FOR BKDS-7022
CN14
HARNESS DC7
TO KY-320 (M/E2)
CN15
HARNESS DC6
TO KY-321 (M/E3) FOR BKDS-7021/7023
KY-367 (M/E3) FOR BKDS-7022
CN16
HARNESS DC5
TO KY-322 (P/P)
CN17
HARNESS DC4
TO KY-319C (P/P)
CN18
HARNESS DC3
TO KY-319B (M/E3) FOR BKDS-7021/7022
KY-319A (M/E3) FOR BKDS-7023
CN19
HARNESS DC2
TO KY-319B (M/E2) FOR BKDS-7021/7022
KY-319A (M/E2) FOR BKDS-7023
CN20
HARNESS DC1
TO KY-319B (M/E1) FOR BKDS-7021/7022
KY-319A (M/E1) FOR BKDS-7023

FRAME WIRING (1/10)

BKDS-7021/7022/7023
BKDS-7090

BKDS-7021/7022/7023 FRAME (2/10)



CN9 — HARNESS RPNL

GND	1	1	CN-1143, 2-1
GND	2	2	CN-1143, 2-2
GND	3	3	CN-1143, 2-3
TX6 (-)	4	4	CN-1143, 2-4
RV6 (+)	5	5	CN-1143, 2-5
GND	6	6	CN-1143, 2-6
GND	7	7	CN-1143, 2-7
GND	8	8	CN-1143, 2-8
TX7 (-)	9	9	CN-1143, 2-9
RV7 (+)	10	10	CN-1143, 2-10
GND	11	11	CN-1143, 2-11
GND	12	12	CN-1143, 2-12
GND	13	13	CN-1143, 2-13
GND	14	14	CN-1143, 2-14
GND	15	15	CN-1143, 2-15
GND	16	16	CN-1143, 2-16
NC	17	17	CN-1143, 2-17
A-TWDT	18	18	CN-1143, 2-18
E-WDT	19	19	CN-1143, 2-19
GND	20	20	CN-1143, 2-20
GND	21	21	CN-1143, 2-21
GND	22	22	CN-1143, 2-22
GND	23	23	CN-1143, 2-23
GND	24	24	CN-1143, 2-24
GND	25	25	CN-1143, 2-25
GND	26	26	CN-1143, 2-26
GND	27	27	CN-1143, 2-27
GND	28	28	CN-1143, 2-28
GND	29	29	CN-1143, 2-29
GND	30	30	CN-1143, 2-30
TXD0	31	31	CN-1143, 2-31
RXD0	32	32	CN-1143, 2-32
TX6 (+)	33	33	CN-1143, 2-33
GND	34	34	CN-1143, 2-34
RX6 (-)	35	35	CN-1143, 2-35
TXD1	36	36	CN-1143, 2-36
RXD1	37	37	CN-1143, 2-37
TX7 (+)	38	38	CN-1143, 2-38
GND	39	39	CN-1143, 2-39
RX7 (-)	40	40	CN-1143, 2-40
ELCK	41	41	CN-1143, 2-41
ELDATA0	42	42	CN-1143, 2-42
ELDATA1	43	43	CN-1143, 2-43
ELVD	44	44	CN-1143, 2-44
ELHD	45	45	CN-1143, 2-45
NC	46	46	CN-1143, 2-46
GND	47	47	CN-1143, 2-47
GND	48	48	CN-1143, 2-48
E-RDT	49	49	CN-1143, 2-49
TCLK	50	50	CN-1143, 2-50
NC	51	51	CN-1143, 2-51
TQCLK	52	52	CN-1143, 2-52
TBLANK	53	53	CN-1143, 2-53
TSEQ	54	54	CN-1143, 2-54
SCLK	55	55	CN-1143, 2-55
SEQ	56	56	CN-1143, 2-56
A-WDT	57	57	CN-1143, 2-57
BLANK	58	58	CN-1143, 2-58
A-RDT	59	59	CN-1143, 2-59
IWLD	60	60	CN-1143, 2-60

CN10 — HARNESS RPNL

G1A	1	1	CN-1143, 1-1
G2A	2	2	CN-1143, 1-2
G3A	3	3	CN-1143, 1-3
G4A	4	4	CN-1143, 1-4
GO5	5	5	CN-1143, 1-5
GO7	6	6	CN-1143, 1-6
GPI IN 1	7	7	CN-1143, 1-7
GPI IN 3	8	8	CN-1143, 1-8
GPI IN 5	9	9	CN-1143, 1-9
GPI IN 7	10	10	CN-1143, 1-10
GND	11	11	CN-1143, 1-11
TX0 (-)	12	12	CN-1143, 1-12
RX0 (+)	13	13	CN-1143, 1-13
GND	14	14	CN-1143, 1-14
FLD (-)	15	15	CN-1143, 1-15
TX3 (+)	16	16	CN-1143, 1-16
GND	17	17	CN-1143, 1-17
RX3 (-)	18	18	CN-1143, 1-18
TX1 (+)	19	19	CN-1143, 1-19
GND	20	20	CN-1143, 1-20
RX1 (-)	21	21	CN-1143, 1-21
TX4 (+)	22	22	CN-1143, 1-22
GND	23	23	CN-1143, 1-23
RX4 (-)	24	24	CN-1143, 1-24
TX2 (+)	25	25	CN-1143, 1-25
GND	26	26	CN-1143, 1-26
RX2 (-)	27	27	CN-1143, 1-27
TX5 (+)	28	28	CN-1143, 1-28
GND	29	29	CN-1143, 1-29
RX5 (-)	30	30	CN-1143, 1-30
G 1 B	31	31	CN-1143, 1-31
G 2 B	32	32	CN-1143, 1-32
G 3 B	33	33	CN-1143, 1-33
G 4 B	34	34	CN-1143, 1-34
G O 6	35	35	CN-1143, 1-35
G O 8	36	36	CN-1143, 1-36
GPI IN 2	37	37	CN-1143, 1-37
GPI IN 4	38	38	CN-1143, 1-38
GPI IN 6	39	39	CN-1143, 1-39
GPI IN 8	40	40	CN-1143, 1-40
TX0 (+)	41	41	CN-1143, 1-41
GND	42	42	CN-1143, 1-42
RX0 (-)	43	43	CN-1143, 1-43
FLD (+)	44	44	CN-1143, 1-44
GND	45	45	CN-1143, 1-45
TX3 (-)	46	46	CN-1143, 1-46
RX3 (+)	47	47	CN-1143, 1-47
GND	48	48	CN-1143, 1-48
TX1 (-)	49	49	CN-1143, 1-49
RX1 (+)	50	50	CN-1143, 1-50
GND	51	51	CN-1143, 1-51
TX4 (-)	52	52	CN-1143, 1-52
RX4 (+)	53	53	CN-1143, 1-53
GND	54	54	CN-1143, 1-54
TX2 (-)	55	55	CN-1143, 1-55
RX2 (+)	56	56	CN-1143, 1-56
GND	57	57	CN-1143, 1-57
TX5 (-)	58	58	CN-1143, 1-58
RX5 (+)	59	59	CN-1143, 1-59
GND	60	60	CN-1143, 1-60

CN3 — HARNESS CTRL 1

SCLK	1	1	KY-321, 1-1	1
BLANK	2	2	KY-321, 1-2	2
SEQ	3	3	KY-321, 1-3	3
IWLD	4	4	KY-321, 1-4	4
WDT	5	5	KY-321, 1-5	0
RDT	6	6	KY-321, 1-6	6
TCLK	7	7	KY-321, 1-7	7
TBLANK	8	8	KY-321, 1-8	8
TSEQ	9	9	KY-321, 1-9	9
TQCLK	10	10	KY-321, 1-10	0
TWDT0	11	11	KY-321, 1-11	1
GND	12	12	KY-321, 1-12	2

CN4 — HARNESS CTRL 1

SCLK	1	1	KY-320, 1-1	1
BLANK	2	2	KY-320, 1-2	2
SEQ	3	3	KY-320, 1-3	3
IWLD	4	4	KY-320, 1-4	4
WDT	5	5	KY-320, 1-5	0
RDT	6	6	KY-320, 1-6	6
TCLK	7	7	KY-320, 1-7	7
TBLANK	8	8	KY-320, 1-8	8
TSEQ	9	9	KY-320, 1-9	9
TQCLK	10	10	KY-320, 1-10	0
TWDT1	11	11	KY-320, 1-11	1
GND	12	12	KY-320, 1-12	2

CN5 — HARNESS CTRL 1

SCLK	1	1	KY-321, 1-1	1
BLANK	2	2	KY-321, 1-2	2
SEQ	3	3	KY-321, 1-3	3
IWLD	4	4	KY-321, 1-4	4
WDT	5	5	KY-321, 1-5	0
RDT	6	6	KY-321, 1-6	6
TCLK	7	7	KY-321, 1-7	7
TBLANK	8	8	KY-321, 1-8	8
TSEQ	9	9	KY-321, 1-9	9
TQCLK	10	10	KY-321, 1-10	0
TWDT2	11	11	KY-321, 1-11	1
GND	12	12	KY-321, 1-12	2

CN6 — HARNESS CTRL 1

SCLK	1	1	KY-322, 1-1	1
BLANK	2	2	KY-322, 1-2	2
SEQ	3	3	KY-322, 1-3	3
IWLD	4	4	KY-322, 1-4	4
WDT	5	5	KY-322, 1-5	0
RDT	6	6	KY-322, 1-6	6
TCLK	7	7	KY-322, 1-7	7
TBLANK	8	8	KY-322, 1-8	8
TSEQ	9	9	KY-322, 1-9	9
TQCLK	10	10	KY-322, 1-10	0
TWDT3	11	11	KY-322, 1-11	1
GND	12	12	KY-322, 1-12	2

CN17 — MAIN 232C

MTXD	1	1	TEST TERMINAL
MRXD	2	2	
GND	3	3	

CN18 — SUB 232C

TXD0	1	1	TEST TERMINAL
RXD0	2	2	
GND	3	3	

CN11 — JOY STICK

POS-X	1	1	RESERVED
POS-Y	2	2	
POS-Z	3	3	
GND	4	4	

CN12 — CN1

GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
TA10	5	5A	TA10
TA9	6	6A	TA9
TA8	7	7A	TA8
TA7	8	8A	TA7
TA6	9	9A	TA6
TA5	10	10A	TA5
TA4	11	11A	TA4
TA3	12	12A	TA3
TA2	13	13A	TA2
TA1	14	14A	TA1
TA0	15	15A	TA0
BUSY	16	16A	BUSY
GD31	17	17A	GD31
GD30	18	18A	GD30
GD29	19	19A	GD29,
GD28	20	20A	GD28
GD27	21	21A	GD27
GD26	22	22A	GD26
GD25	23	23A	GD25
GD24	24	24A	GD24
RESET	25	25A	RESET
BRD	26	26A	BRD
BWR	27	27A	BWR
SIO CS2	28	28A	SIO CS2
SIO CS3	29	29A	SIO CS3
NC	30	30A	NC
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN13 — CN2

GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
RX4 (+)	5	5A	RX4 (+)
RX4 (-)	6	6A	RX4 (-)
TX4 (+)	7	7A	TX4 (+)
TX4 (-)	8	8A	TX4 (-)
RX5 (+)	9	9A	RX5 (+)
RX5 (-)	10	10A	RX5 (-)
TX5 (+)	11	11A	TX5 (+)
TX5 (-)	12	12A	TX5 (-)
RX6 (+)	13	13A	RX6 (+)
RX6 (-)	14	14A	RX6 (-)
TX6 (+)	15	15A	TX6 (+)
TX6 (-)	16	16A	TX6 (-)
RX7 (+)	17	17A	RX7 (+)
RX7 (-)	18	18A	RX7 (-)
TX7 (+)	19	19A	TX7 (+)
TX7 (-)	20	20A	TX7 (-)
CM20	21	21A	CM20
CM21	22	22A	CM21
CM30	23	23A	CM30
CM31	24	24A	CM31
ST2	25	25A	ST2
ST3	26	26A	ST3
SIO CONT2	27	27A	SIO CONT2
SIO CONT3	28	28A	SIO CONT3
SIO STS2	29	29A	SIO STS2
SIO STS3	30	30A	SIO STS3
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN7 — HARNESS CTRL 3

SCLK	1	1	KY-324, 1-1	1
BLANK	2	2	KY-324, 1-2	2
SEQ	3	3	KY-324, 1-3	3
IWLD	4	4	KY-324, 1-4	4
WDT	5	5	KY-324, 1-5	0
RDT	6	6	KY-324, 1-6	6
TCLK	7	7	KY-324, 1-7	7
TBLANK	8	8	KY-324, 1-8	8
TSEQ	9	9	KY-324, 1-9	9
TQCLK	10	10	KY-324, 1-10	0
TWDT4	11	11	KY-324, 1-11	1
GND	12	12	KY-324, 1-12	2

CN8 — WIRE, FLAT TYPE (26 CORE) — FLOPPY DISK DRIVE UNIT

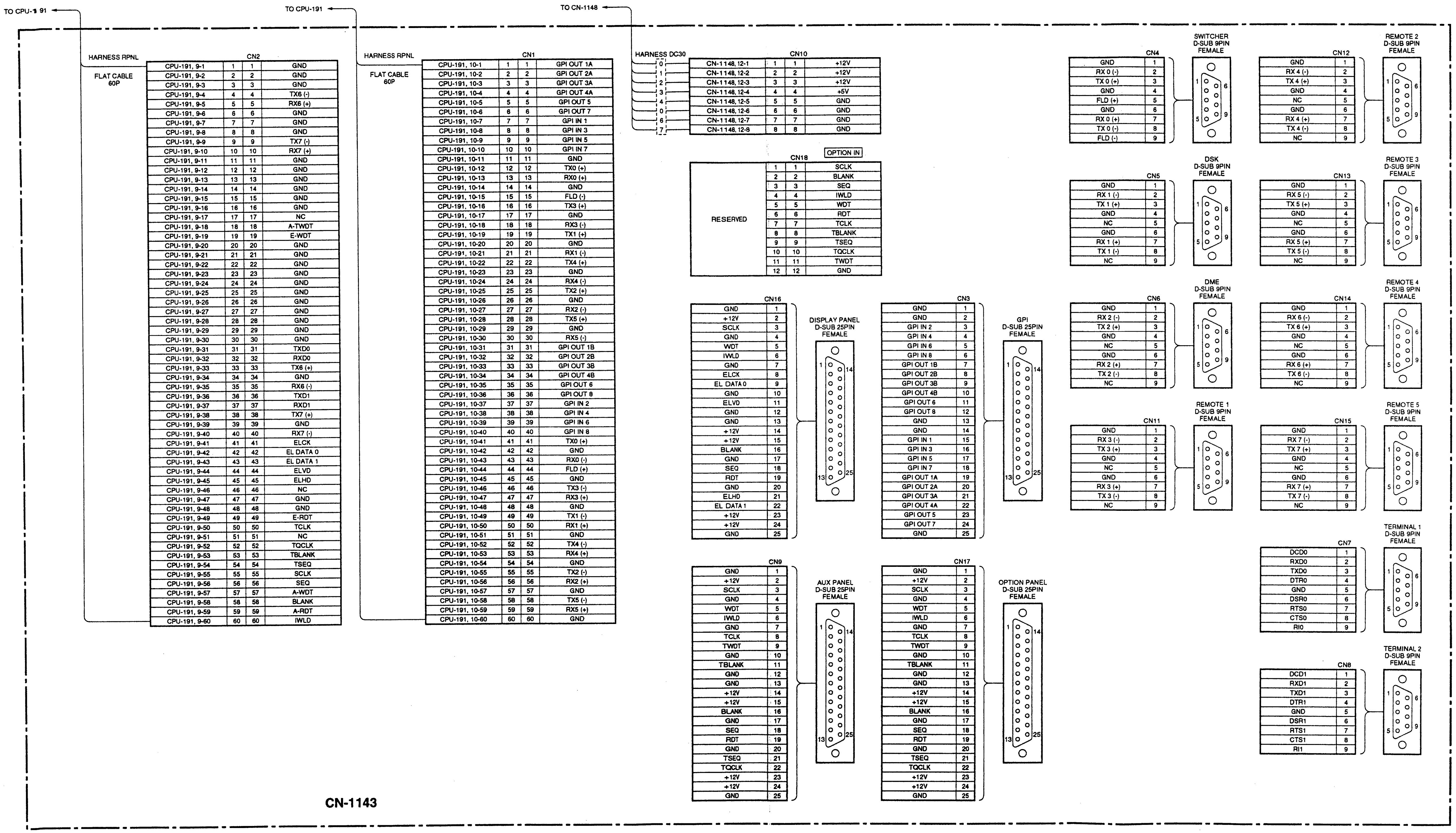
SIDE1	1	1	SIDE1
GND	2	2	GND
READ DAT	3	3	READ DAT
GND	4	4	GND
WRITE PROT	5	5	WRITE PROT
GND	6	6	GND
TRK00	7	7	TRK00
GND	8	8	GND
WG	9	9	WA
GND	10	10	GND
WD	11	11	WG
GND	12	12	GND
STEP	13	13	STEP
NC	14	14	NC
DIRECTION	15	15	DIRECTION
NC	16	16	NC
MOTOR ON	17	17	MOTOR ON
MDDIA	18	18	MDDIA
READY	19	19	READY
NC	20	20	NC
DISK CHANGE	21	21	DISK CHANGE
+5V	22	22	+5V
DRIVE SELECT	23	23	DRIVE SELECT
+5V	24	24	+5V
INDEX	25	25	INDEX
+5V	26	26	+5V

HARNESS DC20 — CN1

1	CN-1148, 11-1	1	1	UNIT ERROR
2	CN-1148, 11-2	2	2	AC ERROR
3	CN-1148, 11-3	3	3	NC
4	CN-1148, 11-4	4	4	+5V
0	CN-1148, 11-5	5	5	+5V
6	CN-1148, 11-6	6	6	GND
7	CN-1148, 11-7	7	7	GND

FRAME WIRING (2/10)

BKDS-7021/7022/7023


TO CPU-191
TO CPU-191
TO CN-1148
HARNESS RPNL
FLAT CABLE 60P
HARNESS RPNL
FLAT CABLE 60P
HARNESS DC30
0
1
2
3
4
0
6
7
OPTION IN
DISPLAY PANEL D-SUB 25PIN FEMALE
GPI D-SUB 25PIN FEMALE
AUX PANEL D-SUB 25PIN FEMALE
OPTION PANEL D-SUB 25PIN FEMALE
SWITCHER D-SUB 9PIN FEMALE
DSK D-SUB 9PIN FEMALE
DME D-SUB 9PIN FEMALE
REMOTE 1 D-SUB 9PIN FEMALE
REMOTE 2 D-SUB 9PIN FEMALE
REMOTE 3 D-SUB 9PIN FEMALE
REMOTE 4 D-SUB 9PIN FEMALE
REMOTE 5 D-SUB 9PIN FEMALE
TERMINAL 1 D-SUB 9PIN FEMALE
TERMINAL 2 D-SUB 9PIN FEMALE
1
6
5
9
1
14
13
25
CN-1143

CN2

CPU-191, 9-1	1	1	GND
CPU-191, 9-2	2	2	GND
CPU-191, 9-3	3	3	GND
CPU-191, 9-4	4	4	TX6 (-)
CPU-191, 9-5	5	5	RX6 (+)
CPU-191, 9-6	6	6	GND
CPU-191, 9-7	7	7	GND
CPU-191, 9-8	8	8	GND
CPU-191, 9-9	9	9	TX7 (-)
CPU-191, 9-10	10	10	RX7 (+)
CPU-191, 9-11	11	11	GND
CPU-191, 9-12	12	12	GND
CPU-191, 9-13	13	13	GND
CPU-191, 9-14	14	14	GND
CPU-191, 9-15	15	15	GND
CPU-191, 9-16	16	16	GND
CPU-191, 9-17	17	17	NC
CPU-191, 9-18	18	18	A-TWDT
CPU-191, 9-19	19	19	E-WDT
CPU-191, 9-20	20	20	GND
CPU-191, 9-21	21	21	GND
CPU-191, 9-22	22	22	GND
CPU-191, 9-23	23	23	GND
CPU-191, 9-24	24	24	GND
CPU-191, 9-25	25	25	GND
CPU-191, 9-26	26	26	GND
CPU-191, 9-27	27	27	GND
CPU-191, 9-28	28	28	GND
CPU-191, 9-29	29	29	GND
CPU-191, 9-30	30	30	GND
CPU-191, 9-31	31	31	TXD0
CPU-191, 9-32	32	32	RXD0
CPU-191, 9-33	33	33	TX6 (+)
CPU-191, 9-34	34	34	GND
CPU-191, 9-35	35	35	RX6 (-)
CPU-191, 9-36	36	36	TXD1
CPU-191, 9-37	37	37	RXD1
CPU-191, 9-38	38	38	TX7 (+)
CPU-191, 9-39	39	39	GND
CPU-191, 9-40	40	40	RX7 (-)
CPU-191, 9-41	41	41	ELCK
CPU-191, 9-42	42	42	EL DATA 0
CPU-191, 9-43	43	43	EL DATA 1
CPU-191, 9-44	44	44	ELVD
CPU-191, 9-45	45	45	ELHD
CPU-191, 9-46	46	46	NC
CPU-191, 9-47	47	47	GND
CPU-191, 9-48	48	48	GND
CPU-191, 9-49	49	49	E-RDT
CPU-191, 9-50	50	50	TCLK
CPU-191, 9-51	51	51	NC
CPU-191, 9-52	52	52	TQCLK
CPU-191, 9-53	53	53	TBLANK
CPU-191, 9-54	54	54	TSEQ
CPU-191, 9-55	55	55	SCLK
CPU-191, 9-56	56	56	SEQ
CPU-191, 9-57	57	57	A-WDT
CPU-191, 9-58	58	58	BLANK
CPU-191, 9-59	59	59	A-RDT
CPU-191, 9-60	60	60	IWLD

CN1

CPU-191, 10-1	1	1	GPI OUT 1A
CPU-191, 10-2	2	2	GPI OUT 2A
CPU-191, 10-3	3	3	GPI OUT 3A
CPU-191, 10-4	4	4	GPI OUT 4A
CPU-191, 10-5	5	5	GPI OUT 5
CPU-191, 10-6	6	6	GPI OUT 7
CPU-191, 10-7	7	7	GPI IN 1
CPU-191, 10-8	8	8	GPI IN 3
CPU-191, 10-9	9	9	GPI IN 5
CPU-191, 10-10	10	10	GPI IN 7
CPU-191, 10-11	11	11	GND
CPU-191, 10-12	12	12	TX0 (+)
CPU-191, 10-13	13	13	RX0 (+)
CPU-191, 10-14	14	14	GND
CPU-191, 10-15	15	15	FLD (-)
CPU-191, 10-16	16	16	TX3 (+)
CPU-191, 10-17	17	17	GND
CPU-191, 10-18	18	18	RX3 (-)
CPU-191, 10-19	19	19	TX1 (+)
CPU-191, 10-20	20	20	GND
CPU-191, 10-21	21	21	RX1 (-)
CPU-191, 10-22	22	22	TX4 (+)
CPU-191, 10-23	23	23	GND
CPU-191, 10-24	24	24	RX4 (-)
CPU-191, 10-25	25	25	TX2 (+)
CPU-191, 10-26	26	26	GND
CPU-191, 10-27	27	27	RX2 (-)
CPU-191, 10-28	28	28	TX5 (+)
CPU-191, 10-29	29	29	GND
CPU-191, 10-30	30	30	RX5 (-)
CPU-191, 10-31	31	31	GPI OUT 1B
CPU-191, 10-32	32	32	GPI OUT 2B
CPU-191, 10-33	33	33	GPI OUT 3B
CPU-191, 10-34	34	34	GPI OUT 4B
CPU-191, 10-35	35	35	GPI OUT 6
CPU-191, 10-36	36	36	GPI OUT 8
CPU-191, 10-37	37	37	GPI IN 2
CPU-191, 10-38	38	38	GPI IN 4
CPU-191, 10-39	39	39	GPI IN 6
CPU-191, 10-40	40	40	GPI IN 8
CPU-191, 10-41	41	41	TX0 (+)
CPU-191, 10-42	42	42	GND
CPU-191, 10-43	43	43	RX0 (-)
CPU-191, 10-44	44	44	FLD (+)
CPU-191, 10-45	45	45	GND
CPU-191, 10-46	46	46	TX3 (-)
CPU-191, 10-47	47	47	RX3 (+)
CPU-191, 10-48	48	48	GND
CPU-191, 10-49	49	49	TX1 (-)
CPU-191, 10-50	50	50	RX1 (+)
CPU-191, 10-51	51	51	GND
CPU-191, 10-52	52	52	TX4 (-)
CPU-191, 10-53	53	53	RX4 (+)
CPU-191, 10-54	54	54	GND
CPU-191, 10-55	55	55	TX2 (-)
CPU-191, 10-56	56	56	RX2 (+)
CPU-191, 10-57	57	57	GND
CPU-191, 10-58	58	58	TX5 (-)
CPU-191, 10-59	59	59	RX5 (+)
CPU-191, 10-60	60	60	GND

CN10

CN-1148, 12-1	1	1	+12V
CN-1148, 12-2	2	2	+12V
CN-1148, 12-3	3	3	+12V
CN-1148, 12-4	4	4	+5V
CN-1148, 12-5	5	5	GND
CN-1148, 12-6	6	6	GND
CN-1148, 12-7	7	7	GND
CN-1148, 12-8	8	8	GND

CN18

RESERVED	1	1	SCLK
	2	2	BLANK
	3	3	SEQ
	4	4	IWLD
	5	5	WDT
	6	6	RDT
	7	7	TCLK
	8	8	TBLANK
	9	9	TSEQ
	10	10	TQCLK
	11	11	TWDT
	12	12	GND

CN16

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
ELCK	8
EL DATA 0	9
GND	10
ELVD	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
ELHD	21
EL DATA 1	22
+12V	23
+12V	24
GND	25

CN3

GND	1
GND	2
GPI IN 2	3
GPI IN 4	4
GPI IN 6	5
GPI IN 8	6
GPI OUT 1B	7
GPI OUT 2B	8
GPI OUT 3B	9
GPI OUT 4B	10
GPI OUT 6	11
GPI OUT 8	12
GND	13
GND	14
GPI IN 1	15
GPI IN 3	16
GPI IN 5	17
GPI IN 7	18
GPI OUT 1A	19
GPI OUT 2A	20
GPI OUT 3A	21
GPI OUT 4A	22
GPI OUT 5	23
GPI OUT 7	24
GND	25

CN9

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN17

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN4

GND	1
RX 0 (-)	2
TX 0 (+)	3
GND	4
FLD (+)	5
GND	6
RX 0 (+)	7
TX 0 (-)	8
FLD (-)	9

CN12

GND	1
RX 4 (-)	2
TX 4 (+)	3
GND	4
NC	5
GND	6
RX 4 (+)	7
TX 4 (-)	8
NC	9

CN5

GND	1
RX 1 (-)	2
TX 1 (+)	3
GND	4
NC	5
GND	6
RX 1 (+)	7
TX 1 (-)	8
NC	9

CN13

GND	1
RX 5 (-)	2
TX 5 (+)	3
GND	4
NC	5
GND	6
RX 5 (+)	7
TX 5 (-)	8
NC	9

CN6

GND	1
RX 2 (-)	2
TX 2 (+)	3
GND	4
NC	5
GND	6
RX 2 (+)	7
TX 2 (-)	8
NC	9

CN14

GND	1
RX 6 (-)	2
TX 6 (+)	3
GND	4
NC	5
GND	6
RX 6 (+)	7
TX 6 (-)	8
NC	9

CN11

GND	1
RX 3 (-)	2
TX 3 (+)	3
GND	4
NC	5
GND	6
RX 3 (+)	7
TX 3 (-)	8
NC	9

CN15

GND	1
RX 7 (-)	2
TX 7 (+)	3
GND	4
NC	5
GND	6
RX 7 (+)	7
TX 7 (-)	8
NC	9

CN7

DCD0	1
RXD0	2
TXD0	3
DTR0	4
GND	5
DSR0	6
RTS0	7
CTS0	8
RI0	9

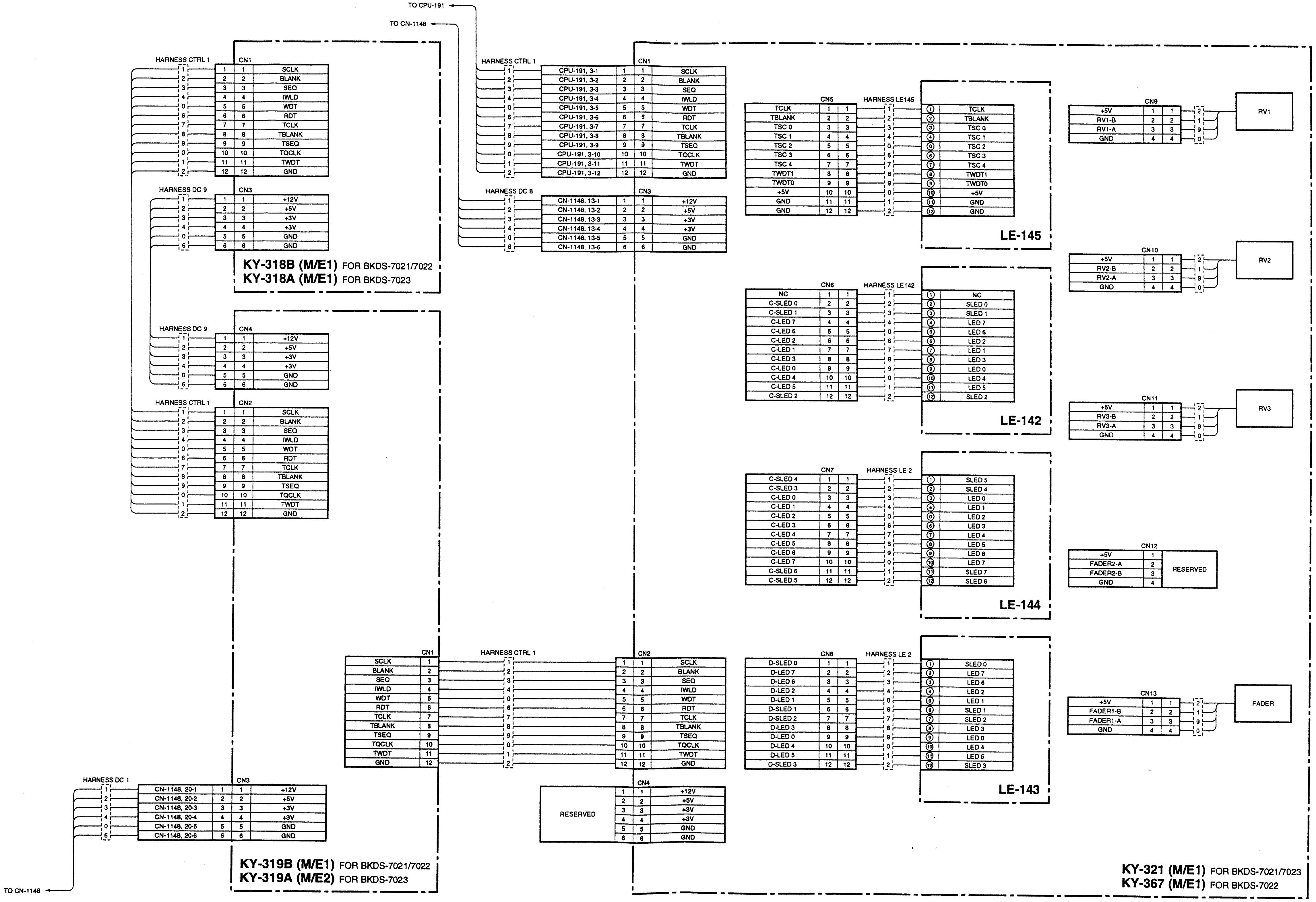
CN8

DCD1	1
RXD1	2
TXD1	3
DTR1	4
GND	5
DSR1	6
RTS1	7
CTS1	8
RI1	9

FRAME WIRING (3/10)

BKDS-7021/7022/7023

BKDS-7021/7022/7023 FRAME (4/10)

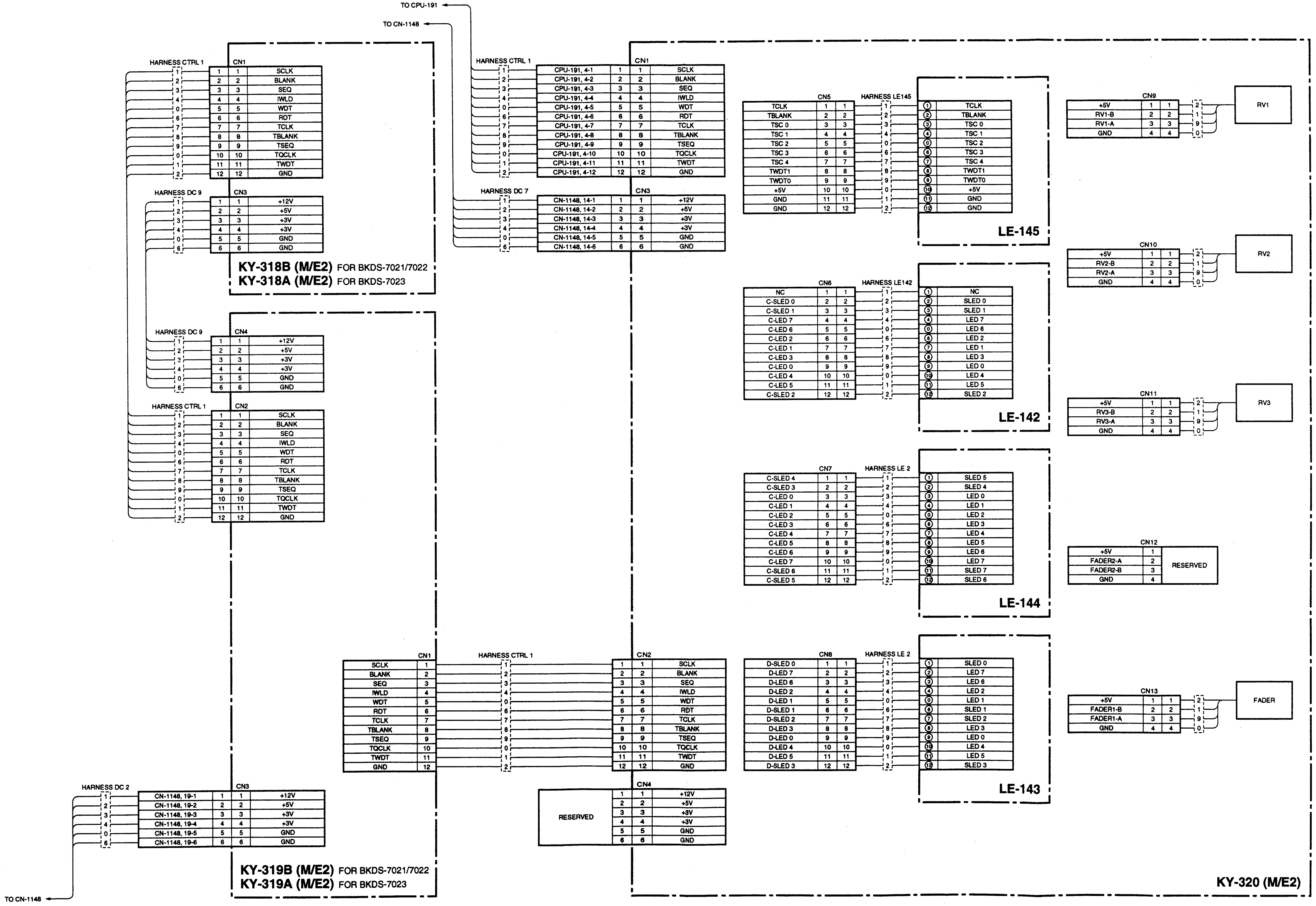

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
+3V
GND
GND
KY-318B (M/E1) FOR BKDS-7021/7022
KY-318A (M/E1) FOR BKDS-7023
CN4
CN2
HARNESS CTRL 1
CN1
CPU-191, 3-1
CPU-191, 3-2
CPU-191, 3-3
CPU-191, 3-4
CPU-191, 3-5
CPU-191, 3-6
CPU-191, 3-7
CPU-191, 3-8
CPU-191, 3-9
CPU-191, 3-10
CPU-191, 3-11
CPU-191, 3-12
HARNESS DC 8
CN3
CN-1148, 13-1
CN-1148, 13-2
CN-1148, 13-3
CN-1148, 13-4
CN-1148, 13-5
CN-1148, 13-6
CN5
HARNESS LE145
TCLK
TBLANK
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
+5V
GND
GND
LE-145
CN6
HARNESS LE142
NC
C-SLED 0
C-SLED 1
C-LED 7
C-LED 6
C-LED 2
C-LED 1
C-LED 3
C-LED 0
C-LED 4
C-LED 5
C-SLED 2
SLED 0
SLED 1
LED 7
LED 6
LED 2
LED 1
LED 3
LED 0
LED 4
LED 5
SLED 2
LE-142
CN7
HARNESS LE 2
C-SLED 4
C-SLED 3
C-LED 0
C-LED 1
C-LED 2
C-LED 3
C-LED 4
C-LED 5
C-LED 6
C-LED 7
C-SLED 6
C-SLED 5
SLED 5
SLED 4
LED 0
LED 1
LED 2
LED 3
LED 4
LED 5
LED 6
LED 7
SLED 7
SLED 6
LE-144
CN8
HARNESS LE 2
D-SLED 0
D-LED 7
D-LED 6
D-LED 2
D-LED 1
D-SLED 1
D-SLED 2
D-LED 3
D-LED 0
D-LED 4
D-LED 5
D-SLED 3
SLED 0
LED 7
LED 6
LED 2
LED 1
SLED 1
SLED 2
LED 3
LED 0
LED 4
LED 5
SLED 3
LE-143
CN9
+5V
RV1-B
RV1-A
GND
RV1
CN10
RV2-B
RV2-A
RV2
CN11
RV3-B
RV3-A
RV3
CN12
FADER2-A
FADER2-B
RESERVED
CN13
FADER1-B
FADER1-A
FADER
HARNESS DC 1
CN-1148, 20-1
CN-1148, 20-2
CN-1148, 20-3
CN-1148, 20-4
CN-1148, 20-5
CN-1148, 20-6
TO CN-1148
KY-319B (M/E1) FOR BKDS-7021/7022
KY-319A (M/E2) FOR BKDS-7023
CN4
RESERVED
KY-321 (M/E1) FOR BKDS-7021/7023
KY-367 (M/E1) FOR BKDS-7022

FRAME WIRING (4/10)

BKDS-7021/7022/7023

2-30

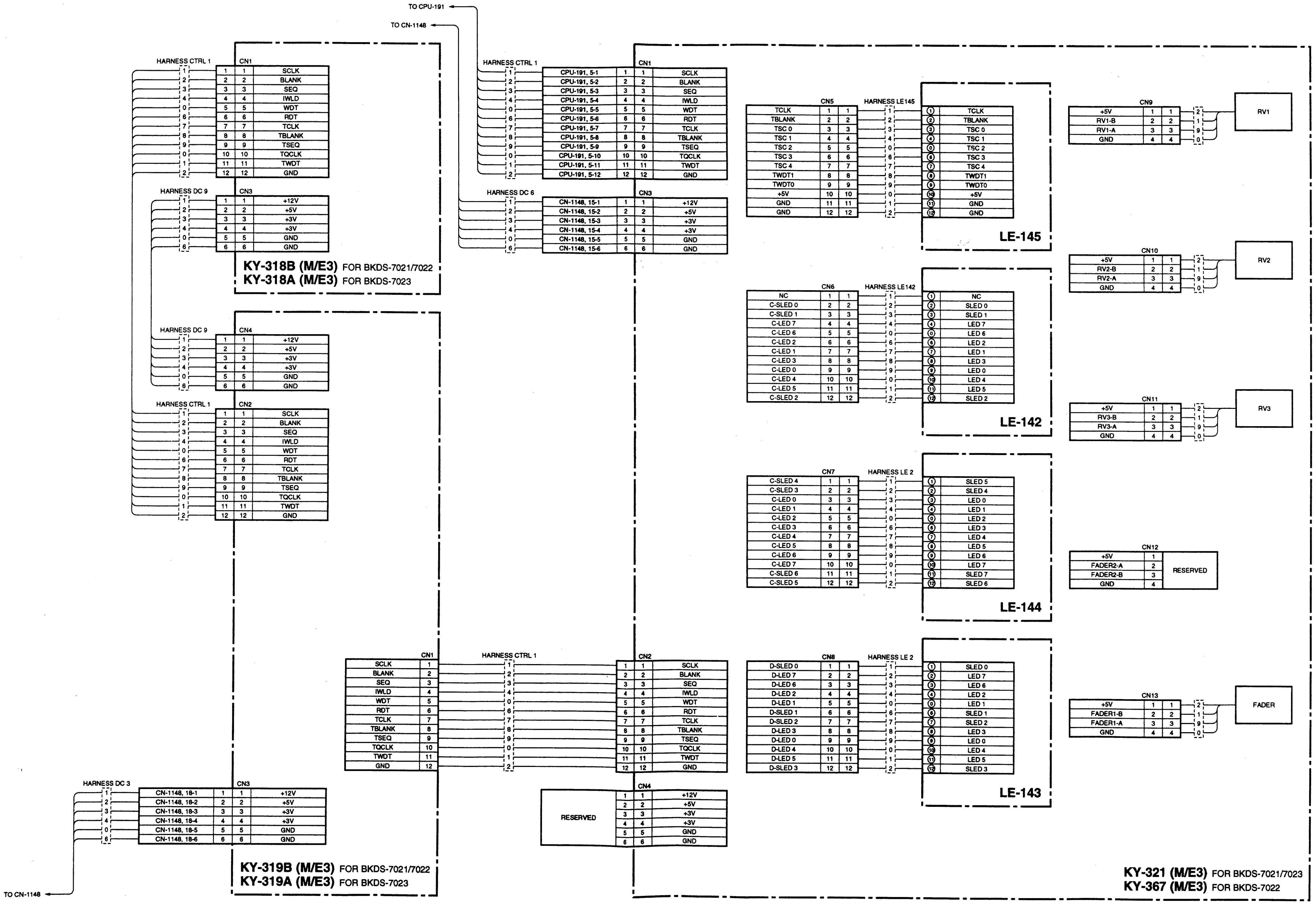
BKDS-7021/7022/7023 FRAME (5/10)


TO CPU-191
TO CN-1148
HARNESS CTRL 1
HARNESS DC 9
HARNESS DC 7
HARNESS DC 2
HARNESS LE145
HARNESS LE142
HARNESS LE 2
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
KY-318B (M/E2) FOR BKDS-7021/7022
KY-318A (M/E2) FOR BKDS-7023
KY-319B (M/E2) FOR BKDS-7021/7022
KY-319A (M/E2) FOR BKDS-7023
KY-320 (M/E2)
LE-145
LE-142
LE-144
LE-143
RV1
RV2
RV3
FADER
RESERVED
TO CN-1148

FRAME WIRING (5/10)

BKDS-7021/7022/7023

BKDS-7021/7022/7023 FRAME (6/10)

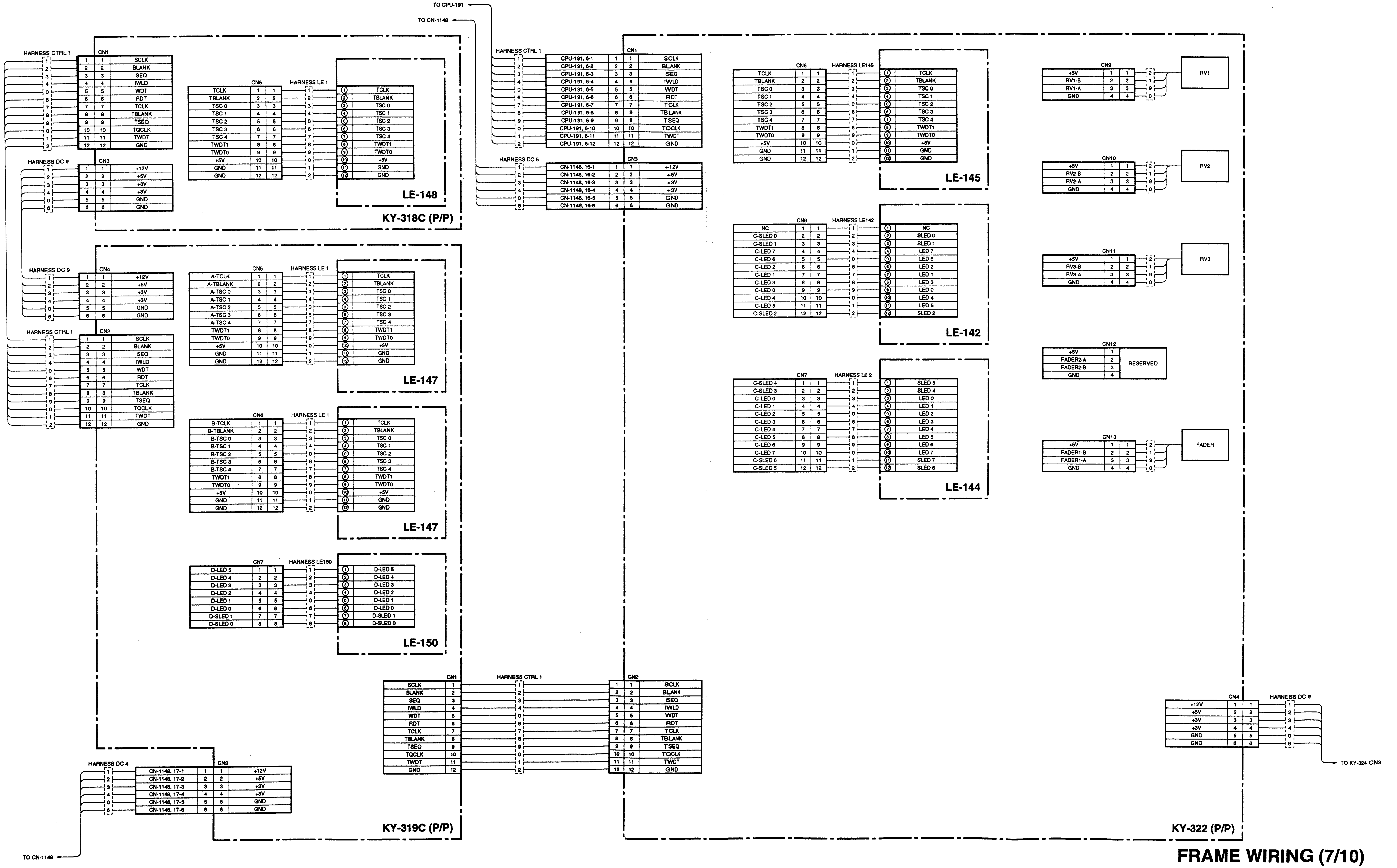

TO CPU-191
TO CN-1148
HARNESS CTRL 1
HARNESS DC 9
HARNESS DC 6
HARNESS DC 3
CN1
CN2
CN3
CN4
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
+12V
+5V
+3V
CPU-191, 5-1
CN-1148, 15-1
CN-1148, 18-1
KY-318B (M/E3) FOR BKDS-7021/7022
KY-318A (M/E3) FOR BKDS-7023
KY-319B (M/E3) FOR BKDS-7021/7022
KY-319A (M/E3) FOR BKDS-7023
RESERVED
CN5
CN6
CN7
CN8
HARNESS LE145
HARNESS LE142
HARNESS LE 2
TSC 0
TWDT1
TWDT0
NC
C-SLED 0
C-LED 7
D-SLED 0
D-LED 7
SLED 0
LED 7
LE-145
LE-142
LE-144
LE-143
CN9
CN10
CN11
CN12
CN13
RV1-B
RV1-A
RV1
RV2
RV3
FADER2-A
FADER2-B
FADER1-B
FADER1-A
FADER
KY-321 (M/E3) FOR BKDS-7021/7023
KY-367 (M/E3) FOR BKDS-7022
TO CN-1148

FRAME WIRING (6/10)

BKDS-7021/7022/7023

2-32

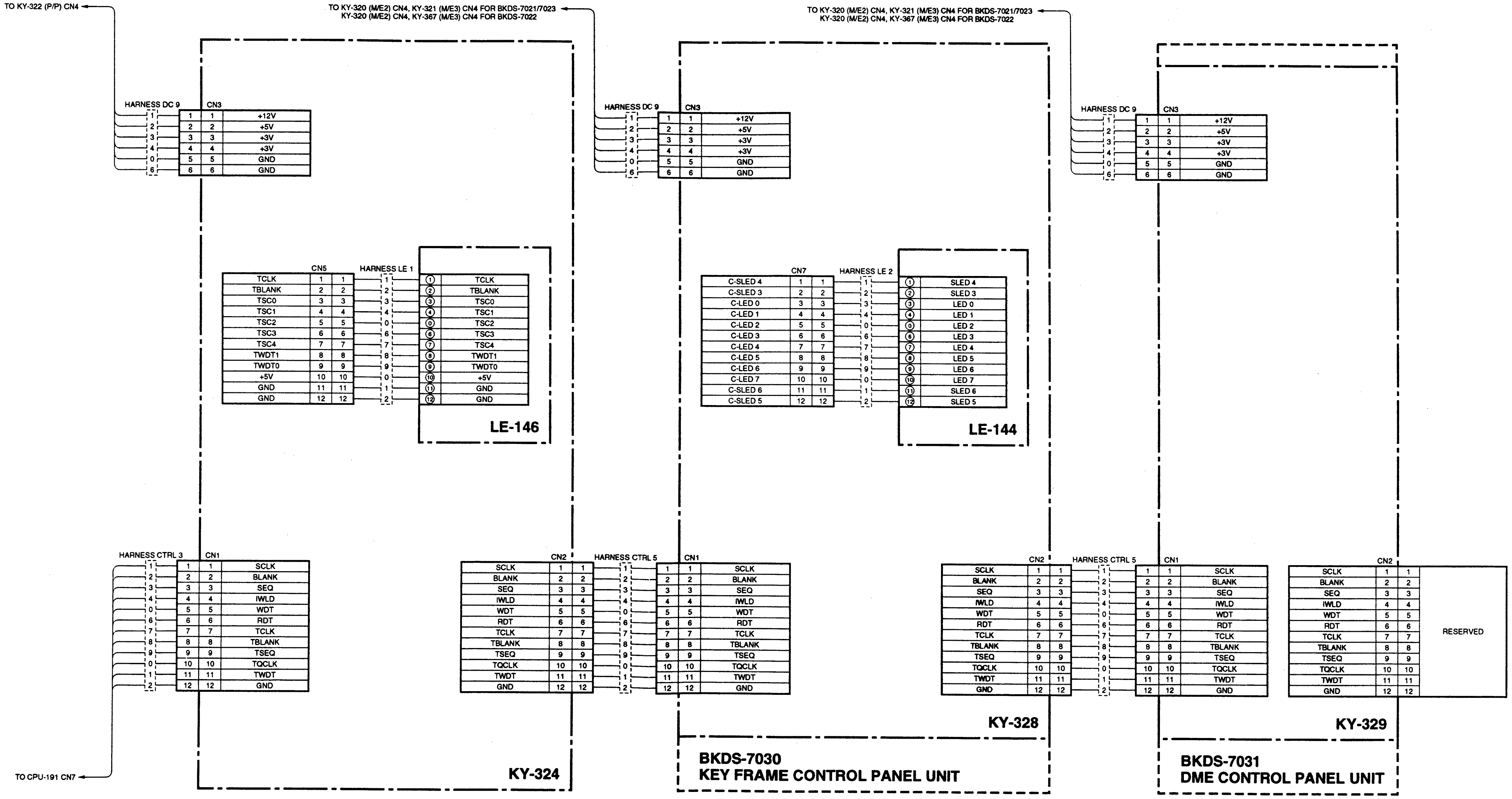
BKDS-7021/7022/7023 FRAME (7/10)


TO CPU-191
TO CN-1148
KY-318C (P/P)
HARNESS CTRL 1
CN1: 1 SCLK, 2 BLANK, 3 SEQ, 4 IWLD, 5 WDT, 6 RDT, 7 TCLK, 8 TBLANK, 9 TSEQ, 10 TQCLK, 11 TWDT, 12 GND
HARNESS DC 9
CN3: 1 +12V, 2 +5V, 3 +3V, 4 +3V, 5 GND, 6 GND
CN5: 1 TCLK, 2 TBLANK, 3 TSC 0, 4 TSC 1, 5 TSC 2, 6 TSC 3, 7 TSC 4, 8 TWDT1, 9 TWDT0, 10 +5V, 11 GND, 12 GND
HARNESS LE 1
LE-148: ① TCLK, ② TBLANK, ③ TSC 0, ④ TSC 1, ⑤ TSC 2, ⑥ TSC 3, ⑦ TSC 4, ⑧ TWDT1, ⑨ TWDT0, ⑩ +5V, ⑪ GND, ⑫ GND
LE-148
KY-319C (P/P)
HARNESS DC 9
CN4: 1 +12V, 2 +5V, 3 +3V, 4 +3V, 5 GND, 6 GND
HARNESS CTRL 1
CN2: 1 SCLK, 2 BLANK, 3 SEQ, 4 IWLD, 5 WDT, 6 RDT, 7 TCLK, 8 TBLANK, 9 TSEQ, 10 TQCLK, 11 TWDT, 12 GND
CN5: 1 A-TCLK, 2 A-TBLANK, 3 A-TSC 0, 4 A-TSC 1, 5 A-TSC 2, 6 A-TSC 3, 7 A-TSC 4, 8 TWDT1, 9 TWDT0, 10 +5V, 11 GND, 12 GND
HARNESS LE 1
LE-147: ① TCLK, ② TBLANK, ③ TSC 0, ④ TSC 1, ⑤ TSC 2, ⑥ TSC 3, ⑦ TSC 4, ⑧ TWDT1, ⑨ TWDT0, ⑩ +5V, ⑪ GND, ⑫ GND
LE-147
CN6: 1 B-TCLK, 2 B-TBLANK, 3 B-TSC 0, 4 B-TSC 1, 5 B-TSC 2, 6 B-TSC 3, 7 B-TSC 4, 8 TWDT1, 9 TWDT0, 10 +5V, 11 GND, 12 GND
HARNESS LE 1
LE-147: ① TCLK, ② TBLANK, ③ TSC 0, ④ TSC 1, ⑤ TSC 2, ⑥ TSC 3, ⑦ TSC 4, ⑧ TWDT1, ⑨ TWDT0, ⑩ +5V, ⑪ GND, ⑫ GND
LE-147
CN7: 1 D-LED 5, 2 D-LED 4, 3 D-LED 3, 4 D-LED 2, 5 D-LED 1, 6 D-LED 0, 7 D-SLED 1, 8 D-SLED 0
HARNESS LE150
LE-150: ① D-LED 5, ② D-LED 4, ③ D-LED 3, ④ D-LED 2, ⑤ D-LED 1, ⑥ D-LED 0, ⑦ D-SLED 1, ⑧ D-SLED 0
LE-150
CN1: 1 SCLK, 2 BLANK, 3 SEQ, 4 IWLD, 5 WDT, 6 RDT, 7 TCLK, 8 TBLANK, 9 TSEQ, 10 TQCLK, 11 TWDT, 12 GND
HARNESS CTRL 1
HARNESS DC 4
CN3: CN-1148, 17-1 1 +12V; CN-1148, 17-2 2 +5V; CN-1148, 17-3 3 +3V; CN-1148, 17-4 4 +3V; CN-1148, 17-5 5 GND; CN-1148, 17-6 6 GND
TO CN-1148
KY-322 (P/P)
HARNESS CTRL 1
CN1: CPU-191, 6-1 1 SCLK; CPU-191, 6-2 2 BLANK; CPU-191, 6-3 3 SEQ; CPU-191, 6-4 4 IWLD; CPU-191, 6-5 5 WDT; CPU-191, 6-6 6 RDT; CPU-191, 6-7 7 TCLK; CPU-191, 6-8 8 TBLANK; CPU-191, 6-9 9 TSEQ; CPU-191, 6-10 10 TQCLK; CPU-191, 6-11 11 TWDT; CPU-191, 6-12 12 GND
HARNESS DC 5
CN3: CN-1148, 16-1 1 +12V; CN-1148, 16-2 2 +5V; CN-1148, 16-3 3 +3V; CN-1148, 16-4 4 +3V; CN-1148, 16-5 5 GND; CN-1148, 16-6 6 GND
CN2: 1 SCLK, 2 BLANK, 3 SEQ, 4 IWLD, 5 WDT, 6 RDT, 7 TCLK, 8 TBLANK, 9 TSEQ, 10 TQCLK, 11 TWDT, 12 GND
CN5: 1 TCLK, 2 TBLANK, 3 TSC 0, 4 TSC 1, 5 TSC 2, 6 TSC 3, 7 TSC 4, 8 TWDT1, 9 TWDT0, 10 +5V, 11 GND, 12 GND
HARNESS LE145
LE-145: ① TCLK, ② TBLANK, ③ TSC 0, ④ TSC 1, ⑤ TSC 2, ⑥ TSC 3, ⑦ TSC 4, ⑧ TWDT1, ⑨ TWDT0, ⑩ +5V, ⑪ GND, ⑫ GND
LE-145
CN6: 1 NC, 2 C-SLED 0, 3 C-SLED 1, 4 C-LED 7, 5 C-LED 6, 6 C-LED 2, 7 C-LED 1, 8 C-LED 3, 9 C-LED 0, 10 C-LED 4, 11 C-LED 5, 12 C-SLED 2
HARNESS LE142
LE-142: ① NC, ② SLED 0, ③ SLED 1, ④ LED 7, ⑤ LED 6, ⑥ LED 2, ⑦ LED 1, ⑧ LED 3, ⑨ LED 0, ⑩ LED 4, ⑪ LED 5, ⑫ SLED 2
LE-142
CN7: 1 C-SLED 4, 2 C-SLED 3, 3 C-LED 0, 4 C-LED 1, 5 C-LED 2, 6 C-LED 3, 7 C-LED 4, 8 C-LED 5, 9 C-LED 6, 10 C-LED 7, 11 C-SLED 6, 12 C-SLED 5
HARNESS LE 2
LE-144: ① SLED 5, ② SLED 4, ③ LED 0, ④ LED 1, ⑤ LED 2, ⑥ LED 3, ⑦ LED 4, ⑧ LED 5, ⑨ LED 6, ⑩ LED 7, ⑪ SLED 7, ⑫ SLED 6
LE-144
CN9: 1 +5V, 2 RV1-B, 3 RV1-A, 4 GND
RV1
CN10: 1 +5V, 2 RV2-B, 3 RV2-A, 4 GND
RV2
CN11: 1 +5V, 2 RV3-B, 3 RV3-A, 4 GND
RV3
CN12: 1 +5V, 2 FADER2-A, 3 FADER2-B, 4 GND
RESERVED
CN13: 1 +5V, 2 FADER1-B, 3 FADER1-A, 4 GND
FADER
HARNESS DC 9
CN4: 1 +12V, 2 +5V, 3 +3V, 4 +3V, 5 GND, 6 GND
TO KY-324 CN3

FRAME WIRING (7/10)
BKDS-7021/7022/7023

2-33

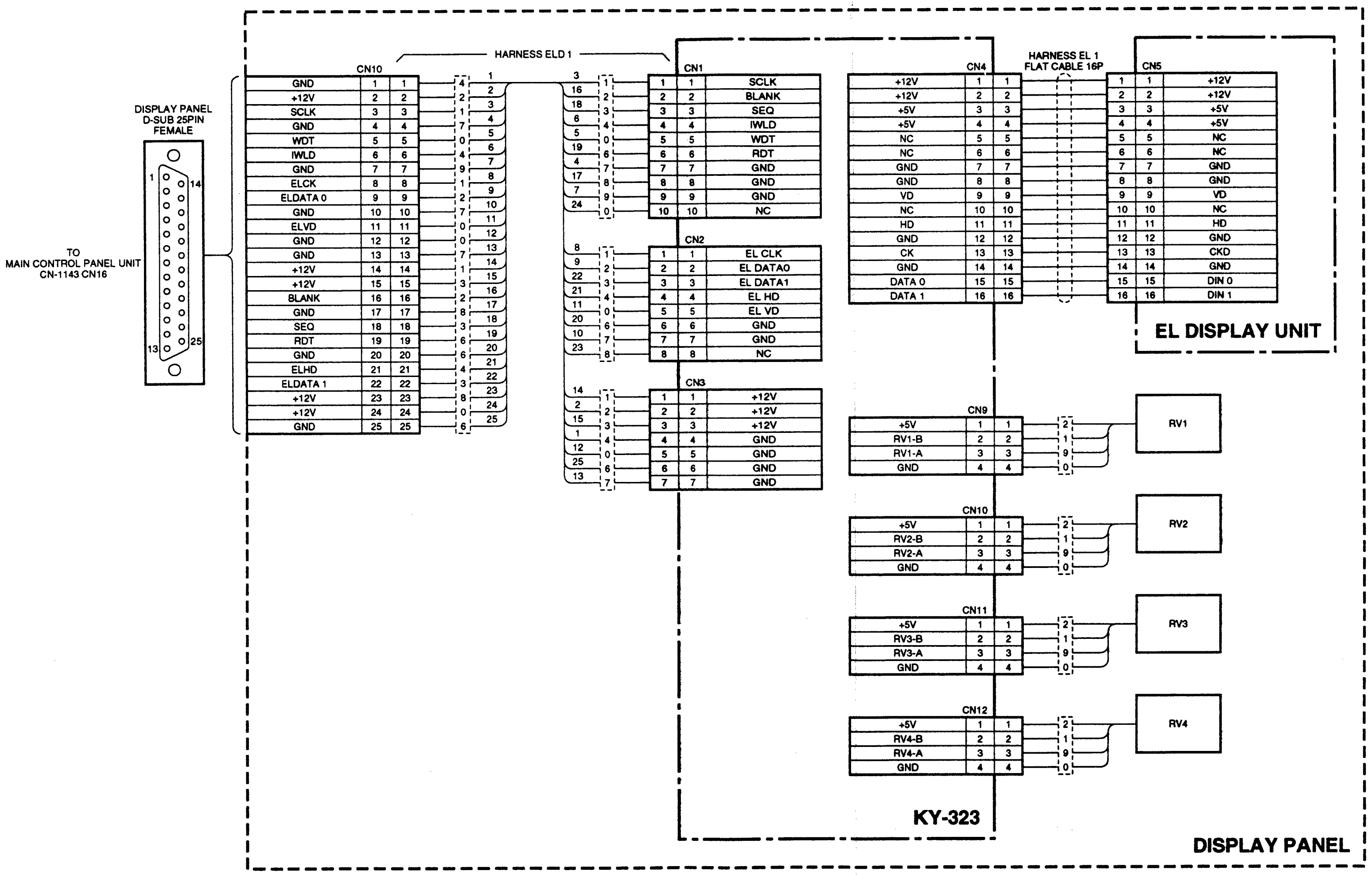
BKDS-7021/7022/7023 FRAME (8/10)


TO KY-322 (P/P) CN4
TO KY-320 (M/E2) CN4, KY-321 (M/E3) CN4 FOR BKDS-7021/7023
KY-320 (M/E2) CN4, KY-367 (M/E3) CN4 FOR BKDS-7022
HARNESS DC 9
CN3
+12V
+5V
+3V
+3V
GND
GND
CN5
HARNESS LE 1
TCLK
TBLANK
TSC0
TSC1
TSC2
TSC3
TSC4
TWDT1
TWDT0
+5V
GND
GND
LE-146
CN7
HARNESS LE 2
C-SLED 4
C-SLED 3
C-LED 0
C-LED 1
C-LED 2
C-LED 3
C-LED 4
C-LED 5
C-LED 6
C-LED 7
C-SLED 6
C-SLED 5
SLED 4
SLED 3
LED 0
LED 1
LED 2
LED 3
LED 4
LED 5
LED 6
LED 7
SLED 6
SLED 5
LE-144
HARNESS CTRL 3
CN1
CN2
HARNESS CTRL 5
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
RESERVED
TO CPU-191 CN7
KY-324
KY-328
KY-329
BKDS-7030
KEY FRAME CONTROL PANEL UNIT
BKDS-7031
DME CONTROL PANEL UNIT

FRAME WIRING (8/10)

BKDS-7021/7022/7023
BKDS-7030/7031

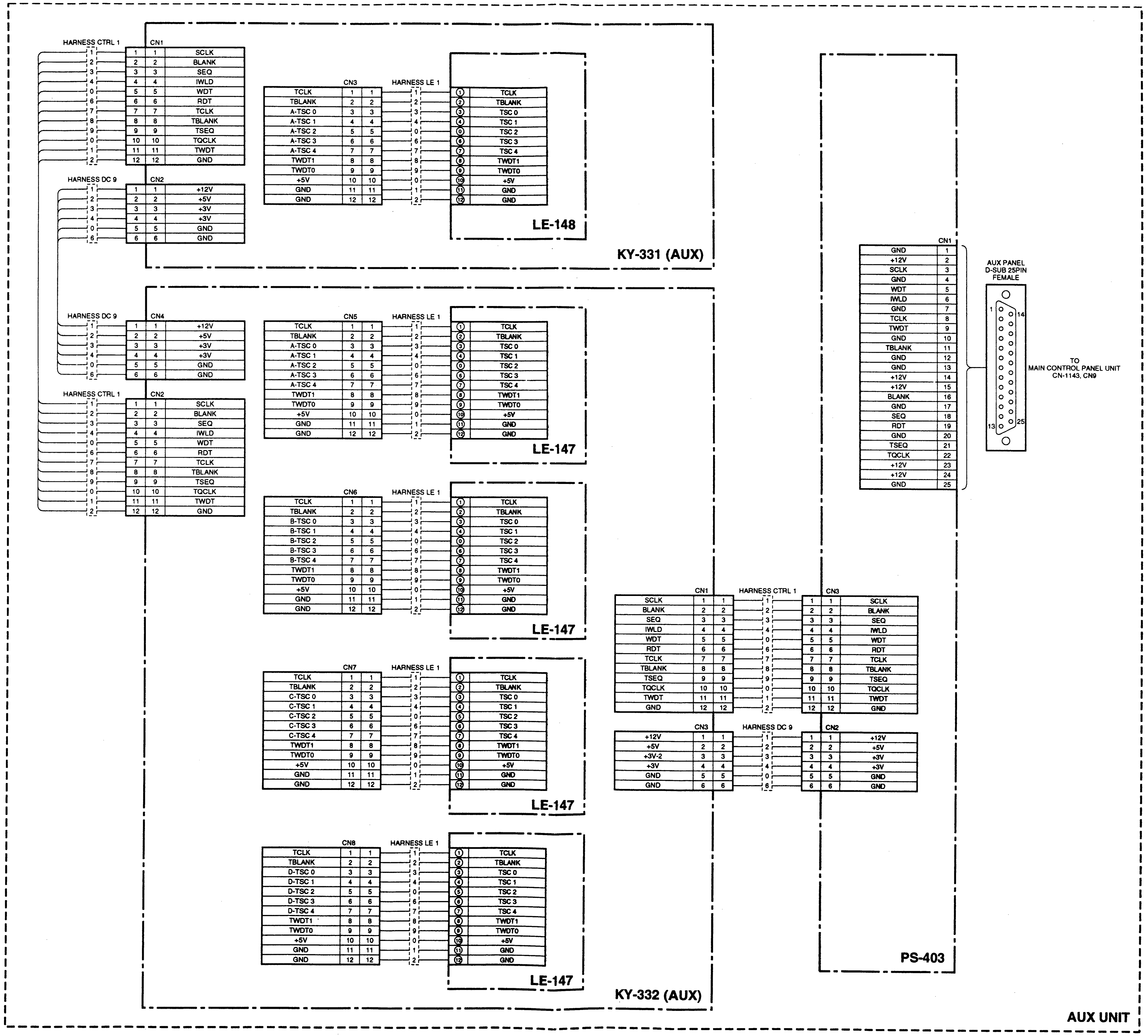
2-34


TO
MAIN CONTROL PANEL UNIT
CN-1143 CN16
DISPLAY PANEL
D-SUB 25PIN
FEMALE
HARNESS ELD 1
CN10
GND
+12V
SCLK
GND
WDT
IWLD
GND
ELCK
ELDATA 0
GND
ELVD
GND
GND
+12V
+12V
BLANK
GND
SEQ
RDT
GND
ELHD
ELDATA 1
+12V
+12V
GND
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
GND
GND
GND
NC
CN2
EL CLK
EL DATA0
EL DATA1
EL HD
EL VD
GND
GND
NC
CN3
+12V
+12V
+12V
GND
GND
GND
GND
CN4
+12V
+12V
+5V
+5V
NC
NC
GND
GND
VD
NC
HD
GND
CK
GND
DATA 0
DATA 1
HARNESS EL 1
FLAT CABLE 16P
CN5
+12V
+12V
+5V
+5V
NC
NC
GND
GND
VD
NC
HD
GND
CKD
GND
DIN 0
DIN 1
EL DISPLAY UNIT
CN9
+5V
RV1-B
RV1-A
GND
RV1
CN10
+5V
RV2-B
RV2-A
GND
RV2
CN11
+5V
RV3-B
RV3-A
GND
RV3
CN12
+5V
RV4-B
RV4-A
GND
RV4
KY-323
DISPLAY PANEL

FRAME WIRING (9/10)

BKDS-7021/7022/7023

BKDS-7021/7022/7023 FRAME (10/10)


HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN2
+12V
+5V
+3V
GND
CN3
HARNESS LE 1
A-TSC 0
A-TSC 1
A-TSC 2
A-TSC 3
A-TSC 4
TWDT1
TWDT0
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
LE-148
KY-331 (AUX)
CN4
CN5
CN6
B-TSC 0
B-TSC 1
B-TSC 2
B-TSC 3
B-TSC 4
CN7
C-TSC 0
C-TSC 1
C-TSC 2
C-TSC 3
C-TSC 4
CN8
D-TSC 0
D-TSC 1
D-TSC 2
D-TSC 3
D-TSC 4
LE-147
LE-147
LE-147
LE-147
KY-332 (AUX)
+3V-2
PS-403
AUX PANEL
D-SUB 25PIN
FEMALE
TO
MAIN CONTROL PANEL UNIT
CN-1143, CN9
AUX UNIT

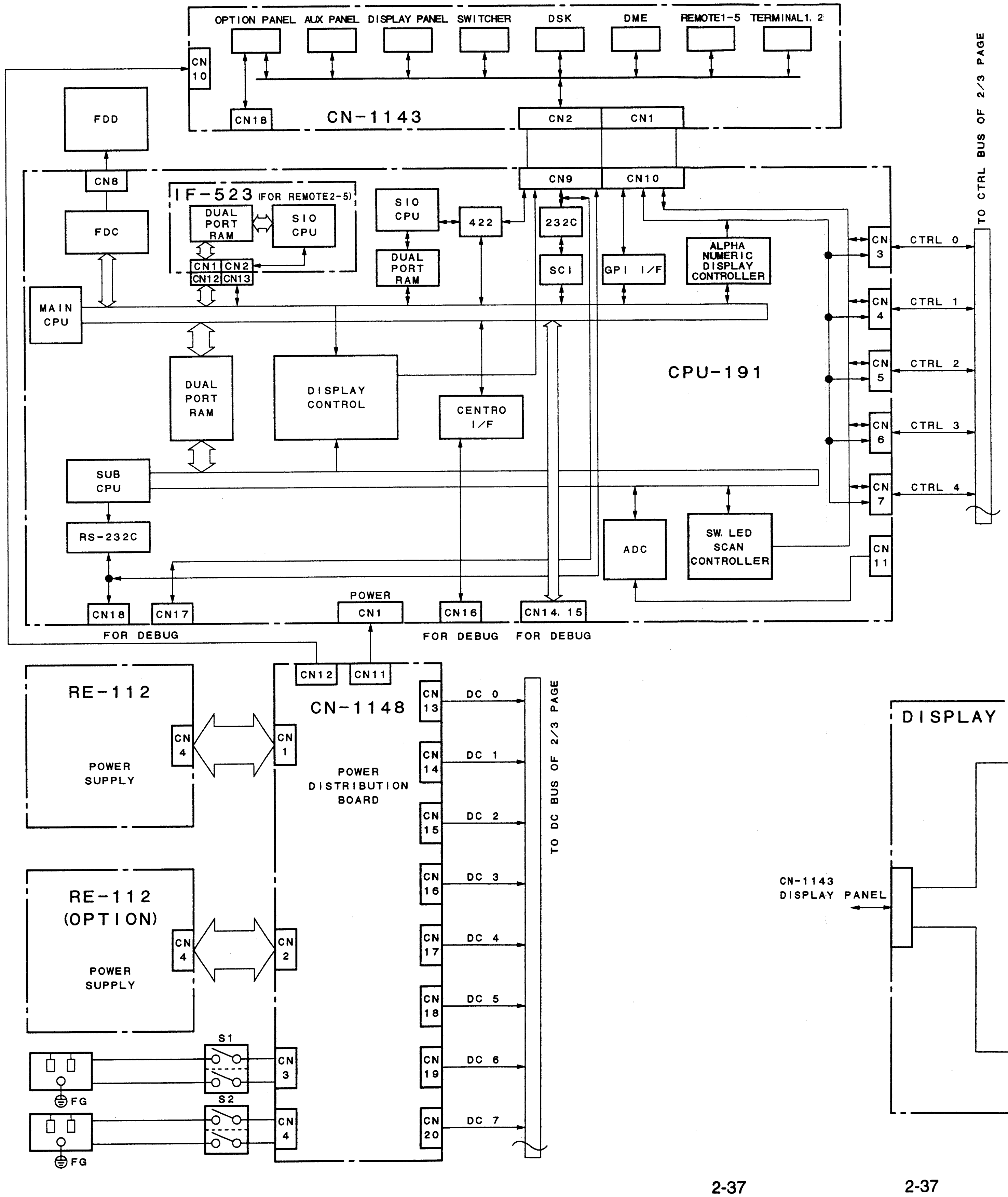
FRAME WIRING (10/10)

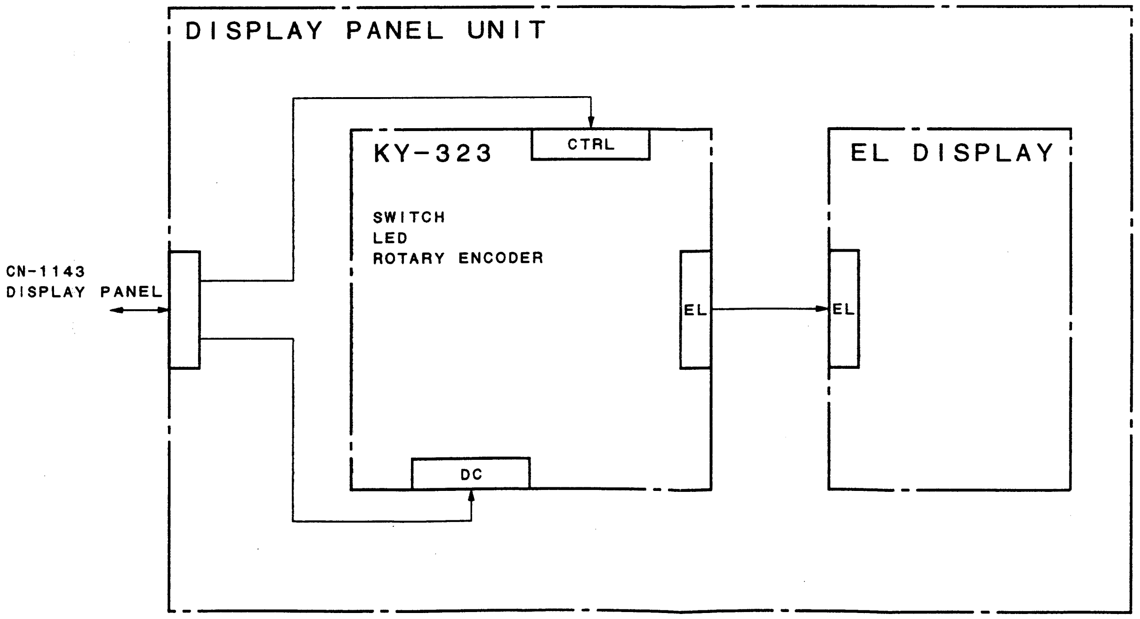
BKDS-7021/7022/7023

2-36

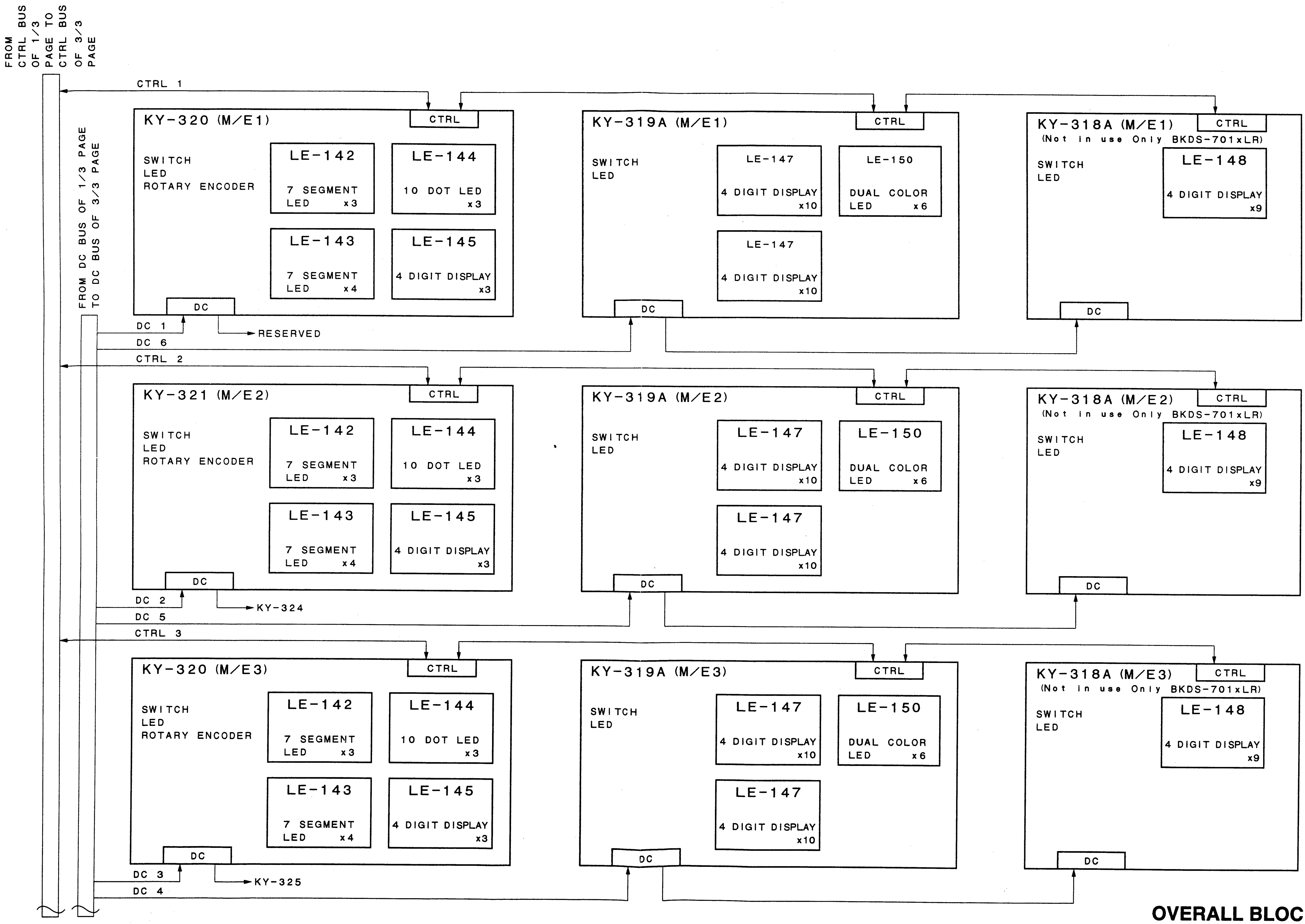
BKDS-701xR/701xLR OVERALL (1/3)

2-6. BKDS-701xR/701xLR
BKDS-701xR/701xLR OVERALL BLOCK


OPTION PANEL
AUX PANEL
DISPLAY PANEL
SWITCHER
DSK
DME
REMOTE1-5
TERMINAL1, 2
CN 10
CN18
CN-1143
CN2
CN1
FDD
CN8
FDC
IF-523 (FOR REMOTE2-5)
DUAL PORT RAM
SIO CPU
CN1
CN2
CN12
CN13
SIO CPU
DUAL PORT RAM
422
CN9
CN10
232C
SCI
GPI I/F
ALPHA NUMERIC DISPLAY CONTROLLER
MAIN CPU
DUAL PORT RAM
DISPLAY CONTROL
CENTRO I/F
CPU-191
SUB CPU
RS-232C
ADC
SW. LED SCAN CONTROLLER
CN 3
CN 4
CN 5
CN 6
CN 7
CN 11
CTRL 0
CTRL 1
CTRL 2
CTRL 3
CTRL 4
TO CTRL BUS OF 2/3 PAGE
CN18
CN17
POWER CN1
CN16
CN14, 15
FOR DEBUG
FOR DEBUG
FOR DEBUG
RE-112
POWER SUPPLY
CN 4
RE-112 (OPTION)
POWER SUPPLY
CN 4
CN12
CN11
CN-1148
POWER DISTRIBUTION BOARD
CN 1
CN 2
CN 3
CN 4
S1
S2
FG
FG
CN 13
CN 14
CN 15
CN 16
CN 17
CN 18
CN 19
CN 20
DC 0
DC 1
DC 2
DC 3
DC 4
DC 5
DC 6
DC 7
TO DC BUS OF 2/3 PAGE


DISPLAY PANEL UNIT
CN-1143 DISPLAY PANEL
KY-323
CTRL
SWITCH
LED
ROTARY ENCODER
EL
DC
EL DISPLAY
EL

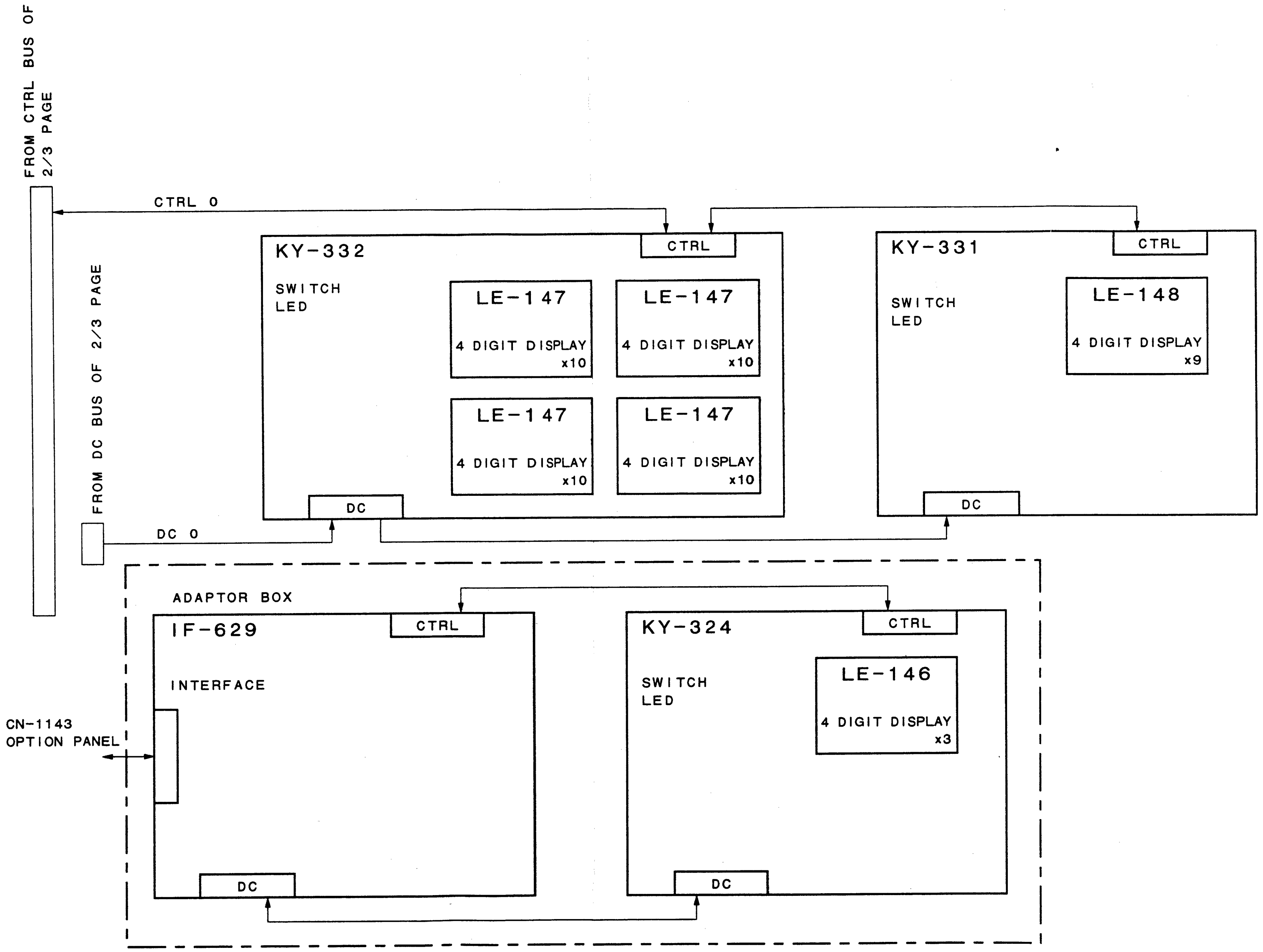
BKDS-701xR/701xLR OVERALL (2/3)


FROM CTRL BUS OF 1/3 PAGE TO CTRL BUS OF 3/3 PAGE
FROM DC BUS OF 1/3 PAGE TO DC BUS OF 3/3 PAGE
CTRL 1
KY-320 (M/E1)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 1
DC 6
RESERVED
KY-319A (M/E1)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E1)
CTRL
(Not in use Only BKDS-701xLR)
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
CTRL 2
KY-321 (M/E2)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 2
DC 5
KY-324
KY-319A (M/E2)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E2)
CTRL
(Not in use Only BKDS-701xLR)
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
CTRL 3
KY-320 (M/E3)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 3
DC 4
KY-325
KY-319A (M/E3)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318A (M/E3)
CTRL
(Not in use Only BKDS-701xLR)
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC

OVERALL BLOCK (2/3)

BKDS-7001/701xR/701xLR/7090

BKDS-701xR/701xLR OVERALL (3/3)


FROM CTRL BUS OF 2/3 PAGE
CTRL 0
FROM DC BUS OF 2/3 PAGE
DC 0
KY-332
SWITCH
LED
CTRL
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
DC
KY-331
SWITCH
LED
CTRL
LE-148
4 DIGIT DISPLAY x9
DC
ADAPTOR BOX
IF-629
INTERFACE
CTRL
DC
CN-1143
OPTION PANEL
KY-324
SWITCH
LED
CTRL
LE-146
4 DIGIT DISPLAY x3
DC

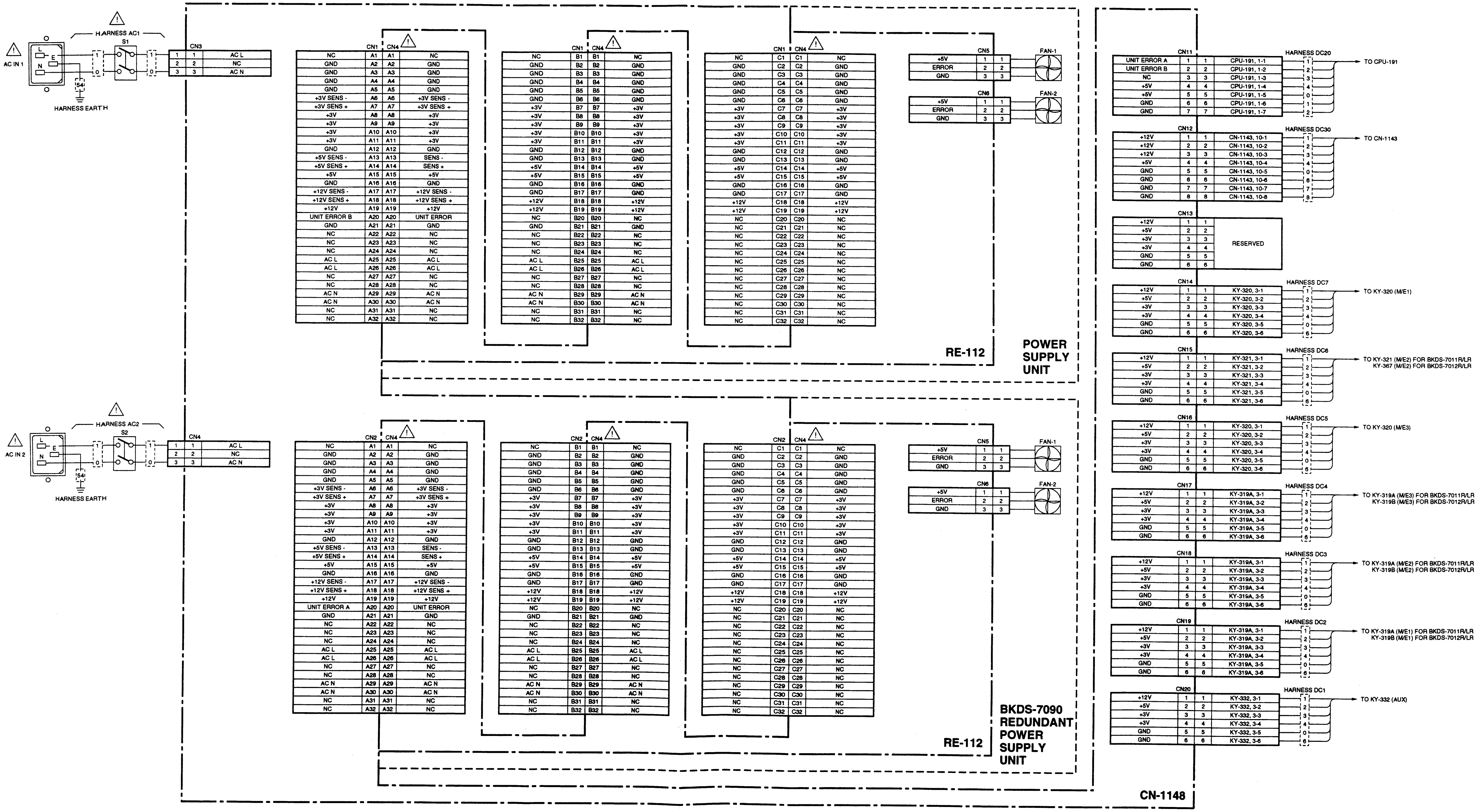
OVERALL BLOCK (3/3)

BKDS-7001/701xR/701xLR/7090

2-39

BKDS-701xR/701xLR FRAME (1/9)

BKDS-701xR/701xLR FRAME WIRING

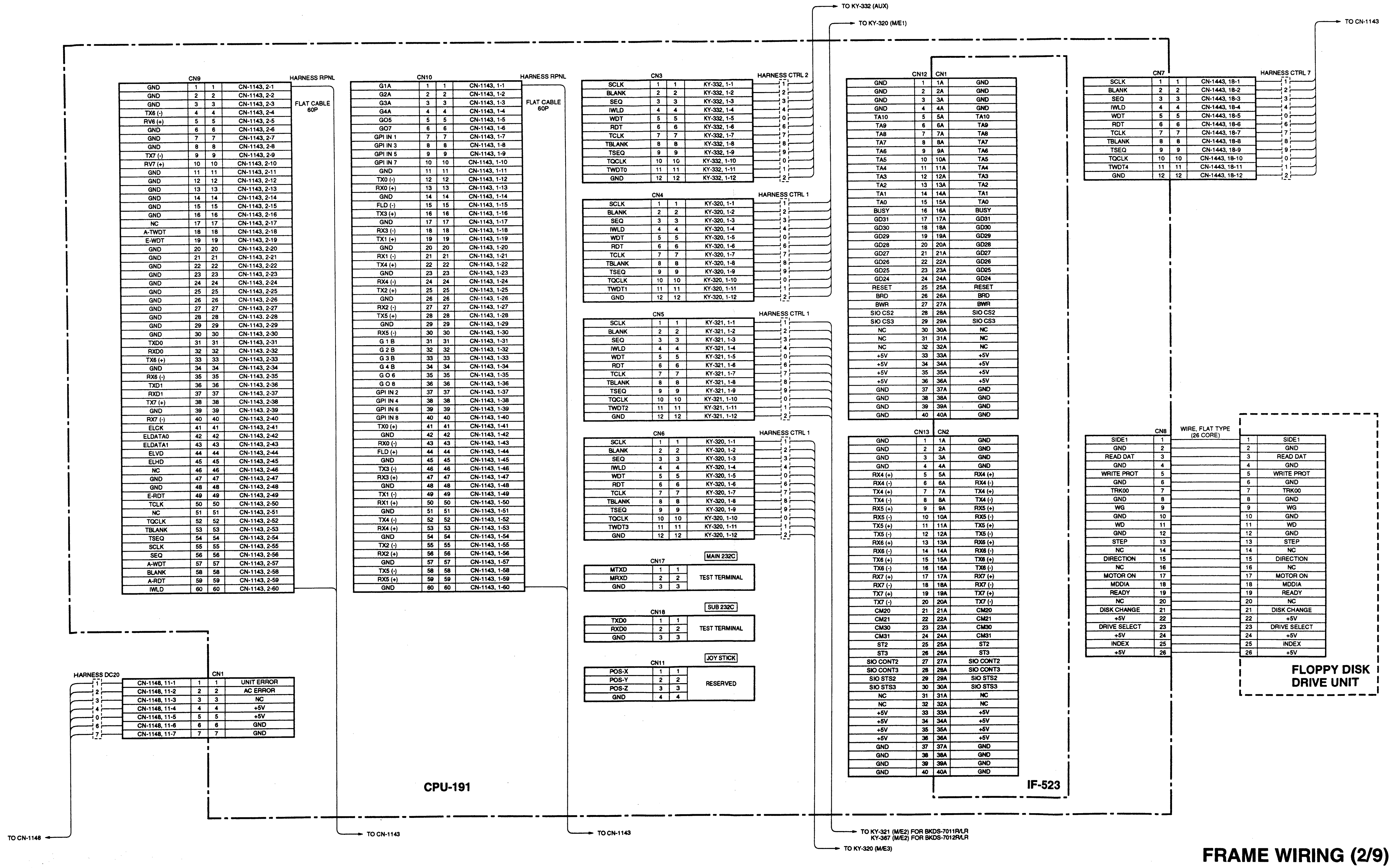

AC IN 1
AC IN 2
HARNESS AC1
HARNESS AC2
S1
S2
HARNESS EARTH
CN3
CN4
AC L
NC
AC N
CN1
CN2
CN4
CN5
CN6
FAN-1
FAN-2
+5V
ERROR
GND
RE-112
POWER SUPPLY UNIT
BKDS-7090 REDUNDANT POWER SUPPLY UNIT
CN-1148
CN11
CN12
CN13
CN14
CN15
CN16
CN17
CN18
CN19
CN20
UNIT ERROR A
UNIT ERROR B
RESERVED
HARNESS DC20
HARNESS DC30
HARNESS DC7
HARNESS DC6
HARNESS DC5
HARNESS DC4
HARNESS DC3
HARNESS DC2
HARNESS DC1
TO CPU-191
TO CN-1143
TO KY-320 (M/E1)
TO KY-321 (M/E2) FOR BKDS-7011R/LR
KY-367 (M/E2) FOR BKDS-7012R/LR
TO KY-320 (M/E3)
TO KY-319A (M/E3) FOR BKDS-7011R/LR
KY-319B (M/E3) FOR BKDS-7012R/LR
TO KY-319A (M/E2) FOR BKDS-7011R/LR
KY-319B (M/E2) FOR BKDS-7012R/LR
TO KY-319A (M/E1) FOR BKDS-7011R/LR
KY-319B (M/E1) FOR BKDS-7012R/LR
TO KY-332 (AUX)

FRAME WIRING (1/9)

BKDS-701xR/701xLR
BKDS-7090

2-40

BKDS-701xR/701xLR FRAME (2/9)



CN9 (HARNESS RPNL, FLAT CABLE 60P)

GND	1	1	CN-1143, 2-1
GND	2	2	CN-1143, 2-2
GND	3	3	CN-1143, 2-3
TX6 (-)	4	4	CN-1143, 2-4
RV6 (+)	5	5	CN-1143, 2-5
GND	6	6	CN-1143, 2-6
GND	7	7	CN-1143, 2-7
GND	8	8	CN-1143, 2-8
TX7 (-)	9	9	CN-1143, 2-9
RV7 (+)	10	10	CN-1143, 2-10
GND	11	11	CN-1143, 2-11
GND	12	12	CN-1143, 2-12
GND	13	13	CN-1143, 2-13
GND	14	14	CN-1143, 2-14
GND	15	15	CN-1143, 2-15
GND	16	16	CN-1143, 2-16
NC	17	17	CN-1143, 2-17
A-TWDT	18	18	CN-1143, 2-18
E-WDT	19	19	CN-1143, 2-19
GND	20	20	CN-1143, 2-20
GND	21	21	CN-1143, 2-21
GND	22	22	CN-1143, 2-22
GND	23	23	CN-1143, 2-23
GND	24	24	CN-1143, 2-24
GND	25	25	CN-1143, 2-25
GND	26	26	CN-1143, 2-26
GND	27	27	CN-1143, 2-27
GND	28	28	CN-1143, 2-28
GND	29	29	CN-1143, 2-29
GND	30	30	CN-1143, 2-30
TXD0	31	31	CN-1143, 2-31
RXD0	32	32	CN-1143, 2-32
TX6 (+)	33	33	CN-1143, 2-33
GND	34	34	CN-1143, 2-34
RX6 (-)	35	35	CN-1143, 2-35
TXD1	36	36	CN-1143, 2-36
RXD1	37	37	CN-1143, 2-37
TX7 (+)	38	38	CN-1143, 2-38
GND	39	39	CN-1143, 2-39
RX7 (-)	40	40	CN-1143, 2-40
ELCK	41	41	CN-1143, 2-41
ELDATA0	42	42	CN-1143, 2-42
ELDATA1	43	43	CN-1143, 2-43
ELVD	44	44	CN-1143, 2-44
ELHD	45	45	CN-1143, 2-45
NC	46	46	CN-1143, 2-46
GND	47	47	CN-1143, 2-47
GND	48	48	CN-1143, 2-48
E-RDT	49	49	CN-1143, 2-49
TCLK	50	50	CN-1143, 2-50
NC	51	51	CN-1143, 2-51
TQCLK	52	52	CN-1143, 2-52
TBLANK	53	53	CN-1143, 2-53
TSEQ	54	54	CN-1143, 2-54
SCLK	55	55	CN-1143, 2-55
SEQ	56	56	CN-1143, 2-56
A-WDT	57	57	CN-1143, 2-57
BLANK	58	58	CN-1143, 2-58
A-RDT	59	59	CN-1143, 2-59
IWLD	60	60	CN-1143, 2-60

CN10 (HARNESS RPNL, FLAT CABLE 60P)

G1A	1	1	CN-1143, 1-1
G2A	2	2	CN-1143, 1-2
G3A	3	3	CN-1143, 1-3
G4A	4	4	CN-1143, 1-4
GO5	5	5	CN-1143, 1-5
GO7	6	6	CN-1143, 1-6
GPI IN 1	7	7	CN-1143, 1-7
GPI IN 3	8	8	CN-1143, 1-8
GPI IN 5	9	9	CN-1143, 1-9
GPI IN 7	10	10	CN-1143, 1-10
GND	11	11	CN-1143, 1-11
TX0 (-)	12	12	CN-1143, 1-12
RX0 (+)	13	13	CN-1143, 1-13
GND	14	14	CN-1143, 1-14
FLD (-)	15	15	CN-1143, 1-15
TX3 (+)	16	16	CN-1143, 1-16
GND	17	17	CN-1143, 1-17
RX3 (-)	18	18	CN-1143, 1-18
TX1 (+)	19	19	CN-1143, 1-19
GND	20	20	CN-1143, 1-20
RX1 (-)	21	21	CN-1143, 1-21
TX4 (+)	22	22	CN-1143, 1-22
GND	23	23	CN-1143, 1-23
RX4 (-)	24	24	CN-1143, 1-24
TX2 (+)	25	25	CN-1143, 1-25
GND	26	26	CN-1143, 1-26
RX2 (-)	27	27	CN-1143, 1-27
TX5 (+)	28	28	CN-1143, 1-28
GND	29	29	CN-1143, 1-29
RX5 (-)	30	30	CN-1143, 1-30
G 1 B	31	31	CN-1143, 1-31
G 2 B	32	32	CN-1143, 1-32
G 3 B	33	33	CN-1143, 1-33
G 4 B	34	34	CN-1143, 1-34
G O 6	35	35	CN-1143, 1-35
G O 8	36	36	CN-1143, 1-36
GPI IN 2	37	37	CN-1143, 1-37
GPI IN 4	38	38	CN-1143, 1-38
GPI IN 6	39	39	CN-1143, 1-39
GPI IN 8	40	40	CN-1143, 1-40
TX0 (+)	41	41	CN-1143, 1-41
GND	42	42	CN-1143, 1-42
RX0 (-)	43	43	CN-1143, 1-43
FLD (+)	44	44	CN-1143, 1-44
GND	45	45	CN-1143, 1-45
TX3 (-)	46	46	CN-1143, 1-46
RX3 (+)	47	47	CN-1143, 1-47
GND	48	48	CN-1143, 1-48
TX1 (-)	49	49	CN-1143, 1-49
RX1 (+)	50	50	CN-1143, 1-50
GND	51	51	CN-1143, 1-51
TX4 (-)	52	52	CN-1143, 1-52
RX4 (+)	53	53	CN-1143, 1-53
GND	54	54	CN-1143, 1-54
TX2 (-)	55	55	CN-1143, 1-55
RX2 (+)	56	56	CN-1143, 1-56
GND	57	57	CN-1143, 1-57
TX5 (-)	58	58	CN-1143, 1-58
RX5 (+)	59	59	CN-1143, 1-59
GND	60	60	CN-1143, 1-60

CN3 (HARNESS CTRL 2)

SCLK	1	1	KY-332, 1-1
BLANK	2	2	KY-332, 1-2
SEQ	3	3	KY-332, 1-3
IWLD	4	4	KY-332, 1-4
WDT	5	5	KY-332, 1-5
RDT	6	6	KY-332, 1-6
TCLK	7	7	KY-332, 1-7
TBLANK	8	8	KY-332, 1-8
TSEQ	9	9	KY-332, 1-9
TQCLK	10	10	KY-332, 1-10
TWDT0	11	11	KY-332, 1-11
GND	12	12	KY-332, 1-12

CN4 (HARNESS CTRL 1)

SCLK	1	1	KY-320, 1-1
BLANK	2	2	KY-320, 1-2
SEQ	3	3	KY-320, 1-3
IWLD	4	4	KY-320, 1-4
WDT	5	5	KY-320, 1-5
RDT	6	6	KY-320, 1-6
TCLK	7	7	KY-320, 1-7
TBLANK	8	8	KY-320, 1-8
TSEQ	9	9	KY-320, 1-9
TQCLK	10	10	KY-320, 1-10
TWDT1	11	11	KY-320, 1-11
GND	12	12	KY-320, 1-12

CN5 (HARNESS CTRL 1)

SCLK	1	1	KY-321, 1-1
BLANK	2	2	KY-321, 1-2
SEQ	3	3	KY-321, 1-3
IWLD	4	4	KY-321, 1-4
WDT	5	5	KY-321, 1-5
RDT	6	6	KY-321, 1-6
TCLK	7	7	KY-321, 1-7
TBLANK	8	8	KY-321, 1-8
TSEQ	9	9	KY-321, 1-9
TQCLK	10	10	KY-321, 1-10
TWDT2	11	11	KY-321, 1-11
GND	12	12	KY-321, 1-12

CN6 (HARNESS CTRL 1)

SCLK	1	1	KY-320, 1-1
BLANK	2	2	KY-320, 1-2
SEQ	3	3	KY-320, 1-3
IWLD	4	4	KY-320, 1-4
WDT	5	5	KY-320, 1-5
RDT	6	6	KY-320, 1-6
TCLK	7	7	KY-320, 1-7
TBLANK	8	8	KY-320, 1-8
TSEQ	9	9	KY-320, 1-9
TQCLK	10	10	KY-320, 1-10
TWDT3	11	11	KY-320, 1-11
GND	12	12	KY-320, 1-12

CN17 (MAIN 232C)

MTXD	1	1	TEST TERMINAL
MRXD	2	2	
GND	3	3	

CN18 (SUB 232C)

TXD0	1	1	TEST TERMINAL
RXD0	2	2	
GND	3	3	

CN11 (JOY STICK)

POS-X	1	1	RESERVED
POS-Y	2	2	
POS-Z	3	3	
GND	4	4	

HARNESS DC20 — CN1

CN-1148, 11-1	1	1	UNIT ERROR
CN-1148, 11-2	2	2	AC ERROR
CN-1148, 11-3	3	3	NC
CN-1148, 11-4	4	4	+5V
CN-1148, 11-5	5	5	+5V
CN-1148, 11-6	6	6	GND
CN-1148, 11-7	7	7	GND

CN12 — CN1

GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
TA10	5	5A	TA10
TA9	6	6A	TA9
TA8	7	7A	TA8
TA7	8	8A	TA7
TA6	9	9A	TA6
TA5	10	10A	TA5
TA4	11	11A	TA4
TA3	12	12A	TA3
TA2	13	13A	TA2
TA1	14	14A	TA1
TA0	15	15A	TA0
BUSY	16	16A	BUSY
GD31	17	17A	GD31
GD30	18	18A	GD30
GD29	19	19A	GD29
GD28	20	20A	GD28
GD27	21	21A	GD27
GD26	22	22A	GD26
GD25	23	23A	GD25
GD24	24	24A	GD24
RESET	25	25A	RESET
BRD	26	26A	BRD
BWR	27	27A	BWR
SIO CS2	28	28A	SIO CS2
SIO CS3	29	29A	SIO CS3
NC	30	30A	NC
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN13 — CN2

GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
RX4 (+)	5	5A	RX4 (+)
RX4 (-)	6	6A	RX4 (-)
TX4 (+)	7	7A	TX4 (+)
TX4 (-)	8	8A	TX4 (-)
RX5 (+)	9	9A	RX5 (+)
RX5 (-)	10	10A	RX5 (-)
TX5 (+)	11	11A	TX5 (+)
TX5 (-)	12	12A	TX5 (-)
RX6 (+)	13	13A	RX6 (+)
RX6 (-)	14	14A	RX6 (-)
TX6 (+)	15	15A	TX6 (+)
TX6 (-)	16	16A	TX6 (-)
RX7 (+)	17	17A	RX7 (+)
RX7 (-)	18	18A	RX7 (-)
TX7 (+)	19	19A	TX7 (+)
TX7 (-)	20	20A	TX7 (-)
CM20	21	21A	CM20
CM21	22	22A	CM21
CM30	23	23A	CM30
CM31	24	24A	CM31
ST2	25	25A	ST2
ST3	26	26A	ST3
SIO CONT2	27	27A	SIO CONT2
SIO CONT3	28	28A	SIO CONT3
SIO STS2	29	29A	SIO STS2
SIO STS3	30	30A	SIO STS3
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN7 (HARNESS CTRL 7)

SCLK	1	1	CN-1443, 18-1
BLANK	2	2	CN-1443, 18-2
SEQ	3	3	CN-1443, 18-3
IWLD	4	4	CN-1443, 18-4
WDT	5	5	CN-1443, 18-5
RDT	6	6	CN-1443, 18-6
TCLK	7	7	CN-1443, 18-7
TBLANK	8	8	CN-1443, 18-8
TSEQ	9	9	CN-1443, 18-9
TQCLK	10	10	CN-1443, 18-10
TWDT4	11	11	CN-1443, 18-11
GND	12	12	CN-1443, 18-12

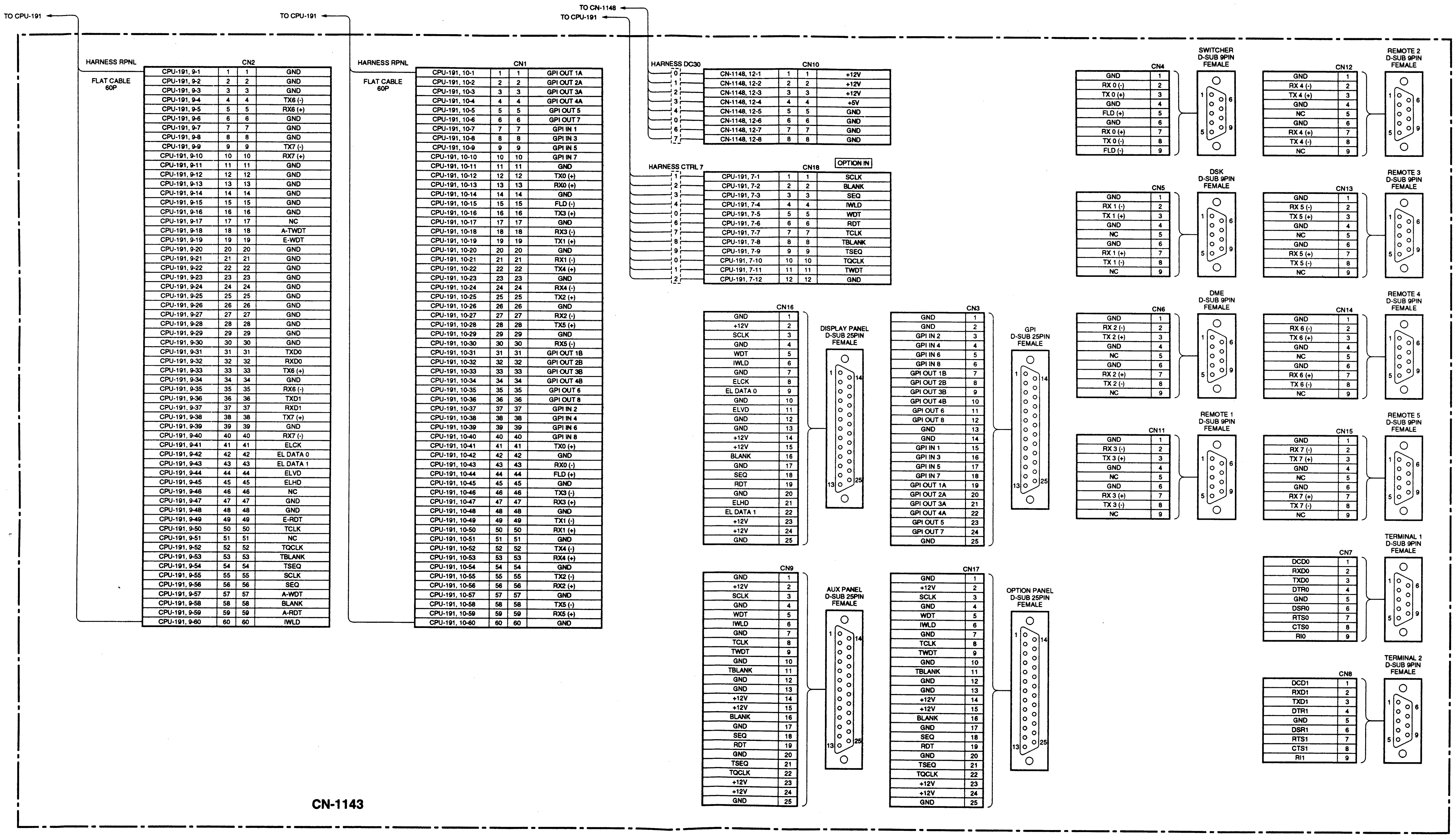
CN8 — WIRE, FLAT TYPE (26 CORE) — FLOPPY DISK DRIVE UNIT

SIDE1	1	1	SIDE1
GND	2	2	GND
READ DAT	3	3	READ DAT
GND	4	4	GND
WRITE PROT	5	5	WRITE PROT
GND	6	6	GND
TRK00	7	7	TRK00
GND	8	8	GND
WG	9	9	WG
GND	10	10	GND
WD	11	11	WD
GND	12	12	GND
STEP	13	13	STEP
NC	14	14	NC
DIRECTION	15	15	DIRECTION
NC	16	16	NC
MOTOR ON	17	17	MOTOR ON
MDDIA	18	18	MDDIA
READY	19	19	READY
NC	20	20	NC
DISK CHANGE	21	21	DISK CHANGE
+5V	22	22	+5V
DRIVE SELECT	23	23	DRIVE SELECT
+5V	24	24	+5V
INDEX	25	25	INDEX
+5V	26	26	+5V

FRAME WIRING (2/9)

BKDS-701xR/701xLR

2-41


TO CPU-191
TO CPU-191
TO CN-1148
TO CPU-191
HARNESS RPNL
FLAT CABLE 60P
HARNESS RPNL
FLAT CABLE 60P
HARNESS DC30
HARNESS CTRL 7
OPTION IN
DISPLAY PANEL D-SUB 25PIN FEMALE
GPI D-SUB 25PIN FEMALE
AUX PANEL D-SUB 25PIN FEMALE
OPTION PANEL D-SUB 25PIN FEMALE
SWITCHER D-SUB 9PIN FEMALE
DSK D-SUB 9PIN FEMALE
DME D-SUB 9PIN FEMALE
REMOTE 1 D-SUB 9PIN FEMALE
REMOTE 2 D-SUB 9PIN FEMALE
REMOTE 3 D-SUB 9PIN FEMALE
REMOTE 4 D-SUB 9PIN FEMALE
REMOTE 5 D-SUB 9PIN FEMALE
TERMINAL 1 D-SUB 9PIN FEMALE
TERMINAL 2 D-SUB 9PIN FEMALE
1
13
14
25
1
5
6
9
CN-1143

HARNESS RPNL
FLAT CABLE 60P

CN2

CPU-191, 9-1	1	1	GND
CPU-191, 9-2	2	2	GND
CPU-191, 9-3	3	3	GND
CPU-191, 9-4	4	4	TX6 (-)
CPU-191, 9-5	5	5	RX6 (+)
CPU-191, 9-6	6	6	GND
CPU-191, 9-7	7	7	GND
CPU-191, 9-8	8	8	GND
CPU-191, 9-9	9	9	TX7 (-)
CPU-191, 9-10	10	10	RX7 (+)
CPU-191, 9-11	11	11	GND
CPU-191, 9-12	12	12	GND
CPU-191, 9-13	13	13	GND
CPU-191, 9-14	14	14	GND
CPU-191, 9-15	15	15	GND
CPU-191, 9-16	16	16	GND
CPU-191, 9-17	17	17	NC
CPU-191, 9-18	18	18	A-TWDT
CPU-191, 9-19	19	19	E-WDT
CPU-191, 9-20	20	20	GND
CPU-191, 9-21	21	21	GND
CPU-191, 9-22	22	22	GND
CPU-191, 9-23	23	23	GND
CPU-191, 9-24	24	24	GND
CPU-191, 9-25	25	25	GND
CPU-191, 9-26	26	26	GND
CPU-191, 9-27	27	27	GND
CPU-191, 9-28	28	28	GND
CPU-191, 9-29	29	29	GND
CPU-191, 9-30	30	30	GND
CPU-191, 9-31	31	31	TXD0
CPU-191, 9-32	32	32	RXD0
CPU-191, 9-33	33	33	TX6 (+)
CPU-191, 9-34	34	34	GND
CPU-191, 9-35	35	35	RX6 (-)
CPU-191, 9-36	36	36	TXD1
CPU-191, 9-37	37	37	RXD1
CPU-191, 9-38	38	38	TX7 (+)
CPU-191, 9-39	39	39	GND
CPU-191, 9-40	40	40	RX7 (-)
CPU-191, 9-41	41	41	ELCK
CPU-191, 9-42	42	42	EL DATA 0
CPU-191, 9-43	43	43	EL DATA 1
CPU-191, 9-44	44	44	ELVD
CPU-191, 9-45	45	45	ELHD
CPU-191, 9-46	46	46	NC
CPU-191, 9-47	47	47	GND
CPU-191, 9-48	48	48	GND
CPU-191, 9-49	49	49	E-RDT
CPU-191, 9-50	50	50	TCLK
CPU-191, 9-51	51	51	NC
CPU-191, 9-52	52	52	TQCLK
CPU-191, 9-53	53	53	TBLANK
CPU-191, 9-54	54	54	TSEQ
CPU-191, 9-55	55	55	SCLK
CPU-191, 9-56	56	56	SEQ
CPU-191, 9-57	57	57	A-WDT
CPU-191, 9-58	58	58	BLANK
CPU-191, 9-59	59	59	A-RDT
CPU-191, 9-60	60	60	IWLD

HARNESS RPNL
FLAT CABLE 60P

CN1

CPU-191, 10-1	1	1	GPI OUT 1A
CPU-191, 10-2	2	2	GPI OUT 2A
CPU-191, 10-3	3	3	GPI OUT 3A
CPU-191, 10-4	4	4	GPI OUT 4A
CPU-191, 10-5	5	5	GPI OUT 5
CPU-191, 10-6	6	6	GPI OUT 7
CPU-191, 10-7	7	7	GPI IN 1
CPU-191, 10-8	8	8	GPI IN 3
CPU-191, 10-9	9	9	GPI IN 5
CPU-191, 10-10	10	10	GPI IN 7
CPU-191, 10-11	11	11	GND
CPU-191, 10-12	12	12	TX0 (+)
CPU-191, 10-13	13	13	RX0 (+)
CPU-191, 10-14	14	14	GND
CPU-191, 10-15	15	15	FLD (-)
CPU-191, 10-16	16	16	TX3 (+)
CPU-191, 10-17	17	17	GND
CPU-191, 10-18	18	18	RX3 (-)
CPU-191, 10-19	19	19	TX1 (+)
CPU-191, 10-20	20	20	GND
CPU-191, 10-21	21	21	RX1 (-)
CPU-191, 10-22	22	22	TX4 (+)
CPU-191, 10-23	23	23	GND
CPU-191, 10-24	24	24	RX4 (-)
CPU-191, 10-25	25	25	TX2 (+)
CPU-191, 10-26	26	26	GND
CPU-191, 10-27	27	27	RX2 (-)
CPU-191, 10-28	28	28	TX5 (+)
CPU-191, 10-29	29	29	GND
CPU-191, 10-30	30	30	RX5 (-)
CPU-191, 10-31	31	31	GPI OUT 1B
CPU-191, 10-32	32	32	GPI OUT 2B
CPU-191, 10-33	33	33	GPI OUT 3B
CPU-191, 10-34	34	34	GPI OUT 4B
CPU-191, 10-35	35	35	GPI OUT 6
CPU-191, 10-36	36	36	GPI OUT 8
CPU-191, 10-37	37	37	GPI IN 2
CPU-191, 10-38	38	38	GPI IN 4
CPU-191, 10-39	39	39	GPI IN 6
CPU-191, 10-40	40	40	GPI IN 8
CPU-191, 10-41	41	41	TX0 (+)
CPU-191, 10-42	42	42	GND
CPU-191, 10-43	43	43	RX0 (-)
CPU-191, 10-44	44	44	FLD (+)
CPU-191, 10-45	45	45	GND
CPU-191, 10-46	46	46	TX3 (-)
CPU-191, 10-47	47	47	RX3 (+)
CPU-191, 10-48	48	48	GND
CPU-191, 10-49	49	49	TX1 (-)
CPU-191, 10-50	50	50	RX1 (+)
CPU-191, 10-51	51	51	GND
CPU-191, 10-52	52	52	TX4 (-)
CPU-191, 10-53	53	53	RX4 (+)
CPU-191, 10-54	54	54	GND
CPU-191, 10-55	55	55	TX2 (-)
CPU-191, 10-56	56	56	RX2 (+)
CPU-191, 10-57	57	57	GND
CPU-191, 10-58	58	58	TX5 (-)
CPU-191, 10-59	59	59	RX5 (+)
CPU-191, 10-60	60	60	GND

HARNESS DC30

CN10

0	CN-1148, 12-1	1	1	+12V
1	CN-1148, 12-2	2	2	+12V
2	CN-1148, 12-3	3	3	+12V
3	CN-1148, 12-4	4	4	+5V
4	CN-1148, 12-5	5	5	GND
0	CN-1148, 12-6	6	6	GND
6	CN-1148, 12-7	7	7	GND
7	CN-1148, 12-8	8	8	GND

HARNESS CTRL 7

CN18 OPTION IN

1	CPU-191, 7-1	1	1	SCLK
2	CPU-191, 7-2	2	2	BLANK
3	CPU-191, 7-3	3	3	SEQ
4	CPU-191, 7-4	4	4	IWLD
0	CPU-191, 7-5	5	5	WDT
6	CPU-191, 7-6	6	6	RDT
7	CPU-191, 7-7	7	7	TCLK
8	CPU-191, 7-8	8	8	TBLANK
9	CPU-191, 7-9	9	9	TSEQ
0	CPU-191, 7-10	10	10	TQCLK
1	CPU-191, 7-11	11	11	TWDT
2	CPU-191, 7-12	12	12	GND

CN16 — DISPLAY PANEL D-SUB 25PIN FEMALE

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
ELCK	8
EL DATA 0	9
GND	10
ELVD	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
ELHD	21
EL DATA 1	22
+12V	23
+12V	24
GND	25

CN3 — GPI D-SUB 25PIN FEMALE

GND	1
GND	2
GPI IN 2	3
GPI IN 4	4
GPI IN 6	5
GPI IN 8	6
GPI OUT 1B	7
GPI OUT 2B	8
GPI OUT 3B	9
GPI OUT 4B	10
GPI OUT 6	11
GPI OUT 8	12
GND	13
GND	14
GPI IN 1	15
GPI IN 3	16
GPI IN 5	17
GPI IN 7	18
GPI OUT 1A	19
GPI OUT 2A	20
GPI OUT 3A	21
GPI OUT 4A	22
GPI OUT 5	23
GPI OUT 7	24
GND	25

CN9 — AUX PANEL D-SUB 25PIN FEMALE

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN17 — OPTION PANEL D-SUB 25PIN FEMALE

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN4 — SWITCHER D-SUB 9PIN FEMALE

GND	1
RX 0 (-)	2
TX 0 (+)	3
GND	4
FLD (+)	5
GND	6
RX 0 (+)	7
TX 0 (-)	8
FLD (-)	9

CN5 — DSK D-SUB 9PIN FEMALE

GND	1
RX 1 (-)	2
TX 1 (+)	3
GND	4
NC	5
GND	6
RX 1 (+)	7
TX 1 (-)	8
NC	9

CN6 — DME D-SUB 9PIN FEMALE

GND	1
RX 2 (-)	2
TX 2 (+)	3
GND	4
NC	5
GND	6
RX 2 (+)	7
TX 2 (-)	8
NC	9

CN11 — REMOTE 1 D-SUB 9PIN FEMALE

GND	1
RX 3 (-)	2
TX 3 (+)	3
GND	4
NC	5
GND	6
RX 3 (+)	7
TX 3 (-)	8
NC	9

CN12 — REMOTE 2 D-SUB 9PIN FEMALE

GND	1
RX 4 (-)	2
TX 4 (+)	3
GND	4
NC	5
GND	6
RX 4 (+)	7
TX 4 (-)	8
NC	9

CN13 — REMOTE 3 D-SUB 9PIN FEMALE

GND	1
RX 5 (-)	2
TX 5 (+)	3
GND	4
NC	5
GND	6
RX 5 (+)	7
TX 5 (-)	8
NC	9

CN14 — REMOTE 4 D-SUB 9PIN FEMALE

GND	1
RX 6 (-)	2
TX 6 (+)	3
GND	4
NC	5
GND	6
RX 6 (+)	7
TX 6 (-)	8
NC	9

CN15 — REMOTE 5 D-SUB 9PIN FEMALE

GND	1
RX 7 (-)	2
TX 7 (+)	3
GND	4
NC	5
GND	6
RX 7 (+)	7
TX 7 (-)	8
NC	9

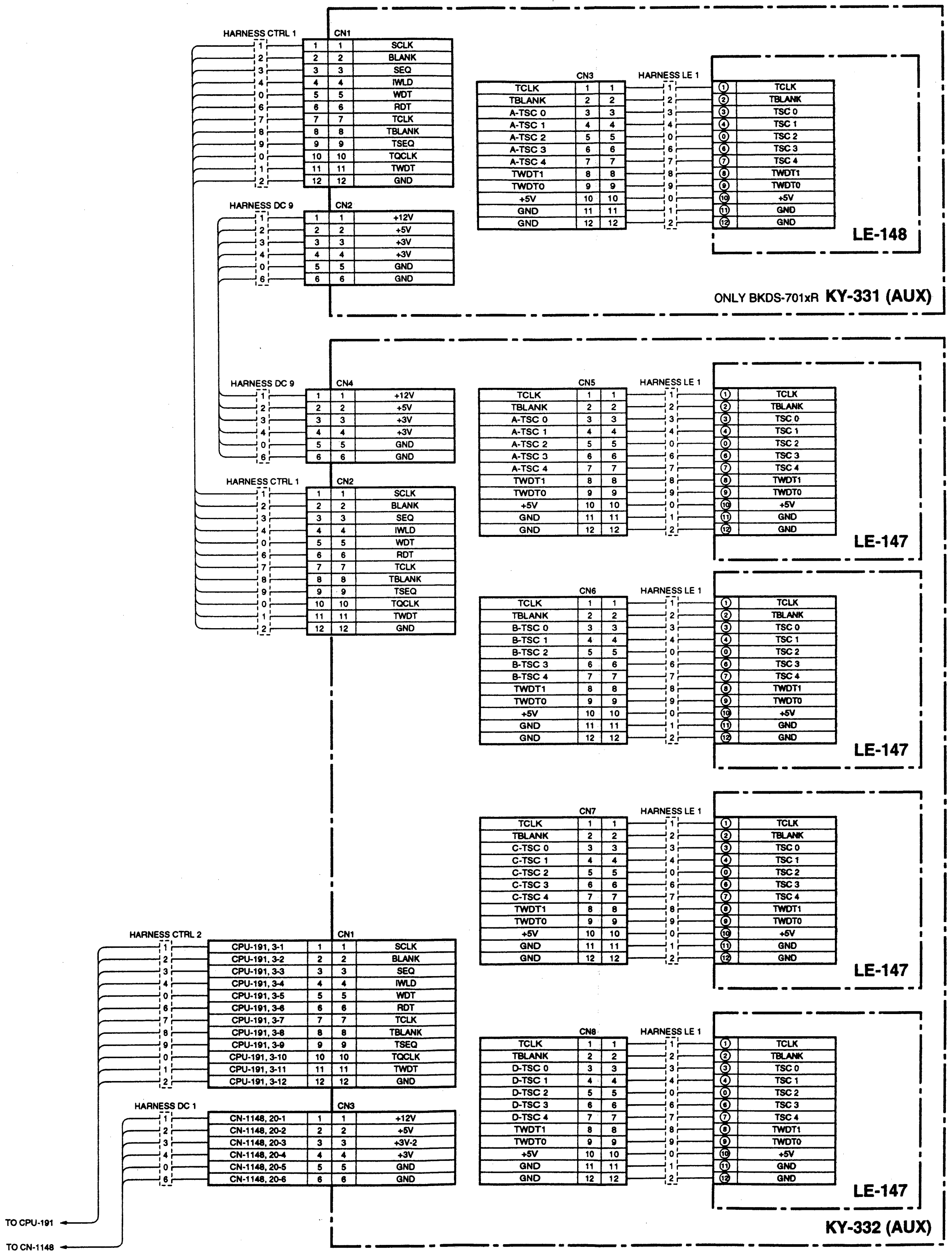
CN7 — TERMINAL 1 D-SUB 9PIN FEMALE

DCD0	1
RXD0	2
TXD0	3
DTR0	4
GND	5
DSR0	6
RTS0	7
CTS0	8
RI0	9

CN8 — TERMINAL 2 D-SUB 9PIN FEMALE

DCD1	1
RXD1	2
TXD1	3
DTR1	4
GND	5
DSR1	6
RTS1	7
CTS1	8
RI1	9

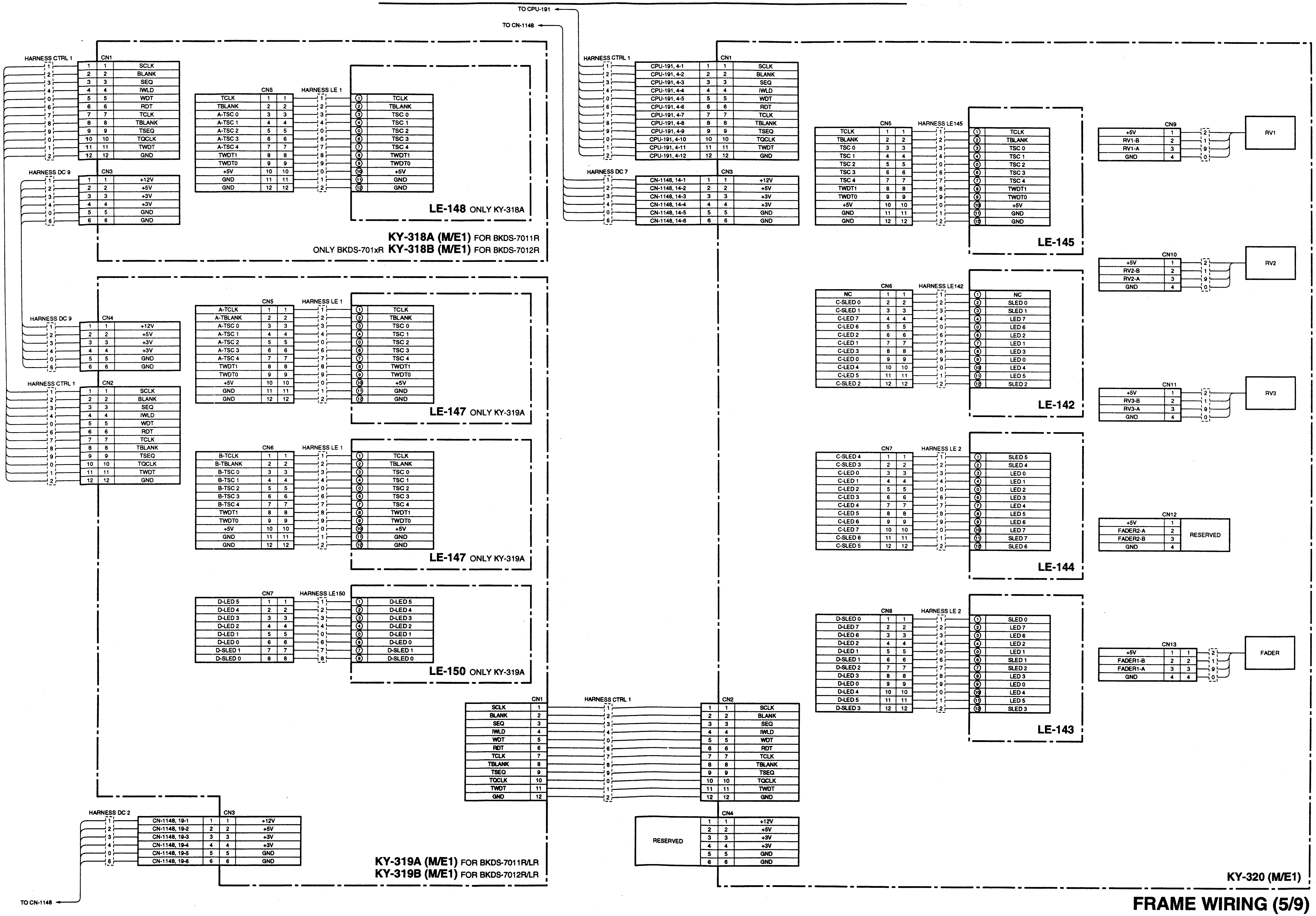
BKDS-701xR/701xLR FRAME (4/9)


HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN2
+12V
+5V
+3V
GND
CN3
HARNESS LE 1
TCLK
TBLANK
A-TSC 0
A-TSC 1
A-TSC 2
A-TSC 3
A-TSC 4
TWDT1
TWDT0
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
LE-148
ONLY BKDS-701xR KY-331 (AUX)
CN4
CN5
LE-147
CN6
B-TSC 0
B-TSC 1
B-TSC 2
B-TSC 3
B-TSC 4
CN7
C-TSC 0
C-TSC 1
C-TSC 2
C-TSC 3
C-TSC 4
CN8
D-TSC 0
D-TSC 1
D-TSC 2
D-TSC 3
D-TSC 4
HARNESS CTRL 2
CPU-191, 3-1
CPU-191, 3-2
CPU-191, 3-3
CPU-191, 3-4
CPU-191, 3-5
CPU-191, 3-6
CPU-191, 3-7
CPU-191, 3-8
CPU-191, 3-9
CPU-191, 3-10
CPU-191, 3-11
CPU-191, 3-12
HARNESS DC 1
CN-1148, 20-1
CN-1148, 20-2
CN-1148, 20-3
CN-1148, 20-4
CN-1148, 20-5
CN-1148, 20-6
+3V-2
KY-332 (AUX)
TO CPU-191
TO CN-1148

FRAME WIRING (4/9)

BKDS-701xR/701xLR

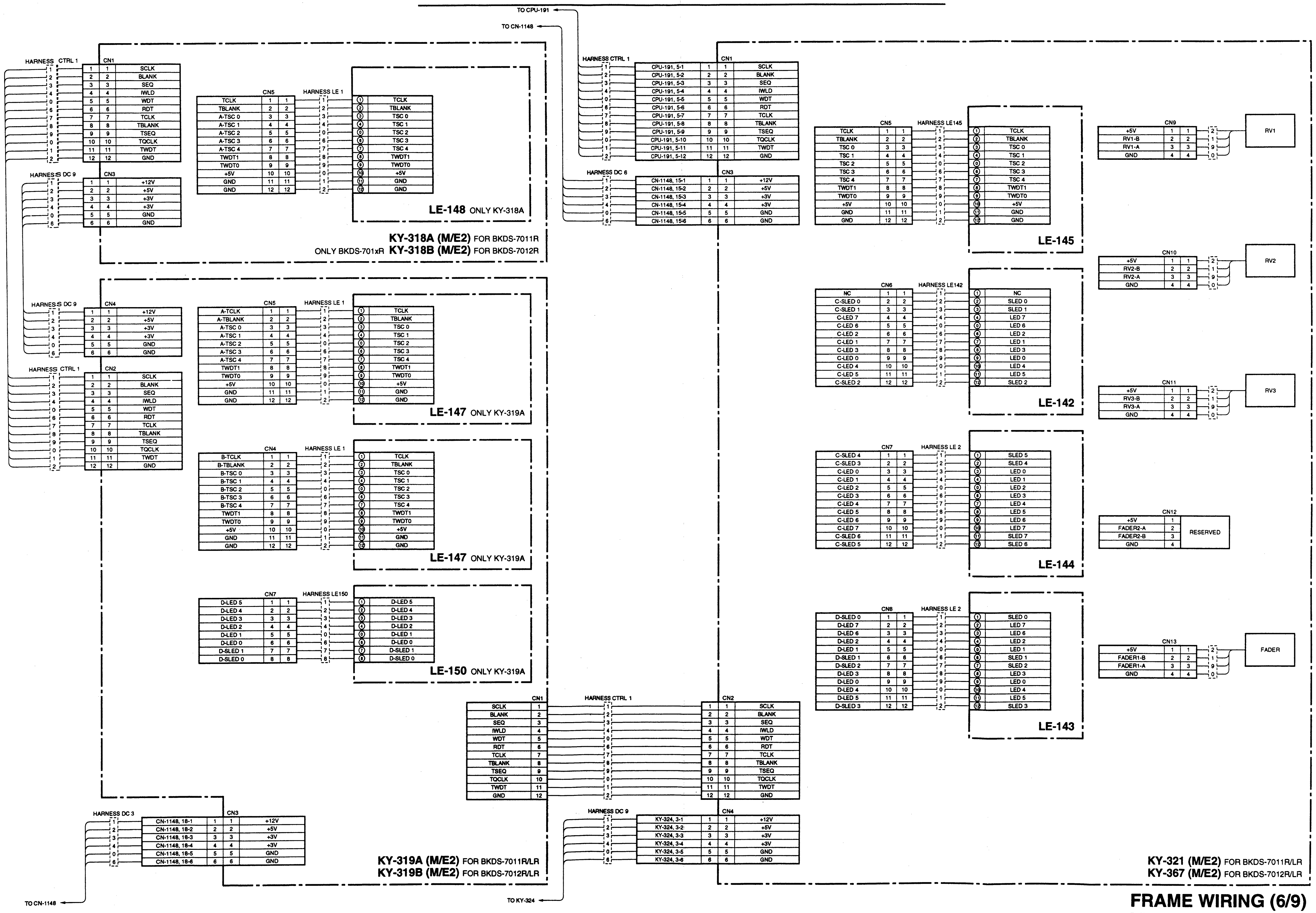
BKDS-701xR/701xLR FRAME (5/9)


TO CPU-191
TO CN-1148
HARNESS CTRL 1
HARNESS DC 9
HARNESS DC 7
HARNESS DC 2
HARNESS LE 1
HARNESS LE 2
HARNESS LE145
HARNESS LE142
HARNESS LE150
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
LE-148 ONLY KY-318A
KY-318A (M/E1) FOR BKDS-7011R
ONLY BKDS-701xR KY-318B (M/E1) FOR BKDS-7012R
LE-147 ONLY KY-319A
LE-147 ONLY KY-319A
LE-150 ONLY KY-319A
KY-319A (M/E1) FOR BKDS-7011R/LR
KY-319B (M/E1) FOR BKDS-7012R/LR
LE-145
LE-142
LE-144
LE-143
RV1
RV2
RV3
FADER
RESERVED
RESERVED
KY-320 (M/E1)
TO CN-1148

FRAME WIRING (5/9)
BKDS-701xR/701xLR

2-44

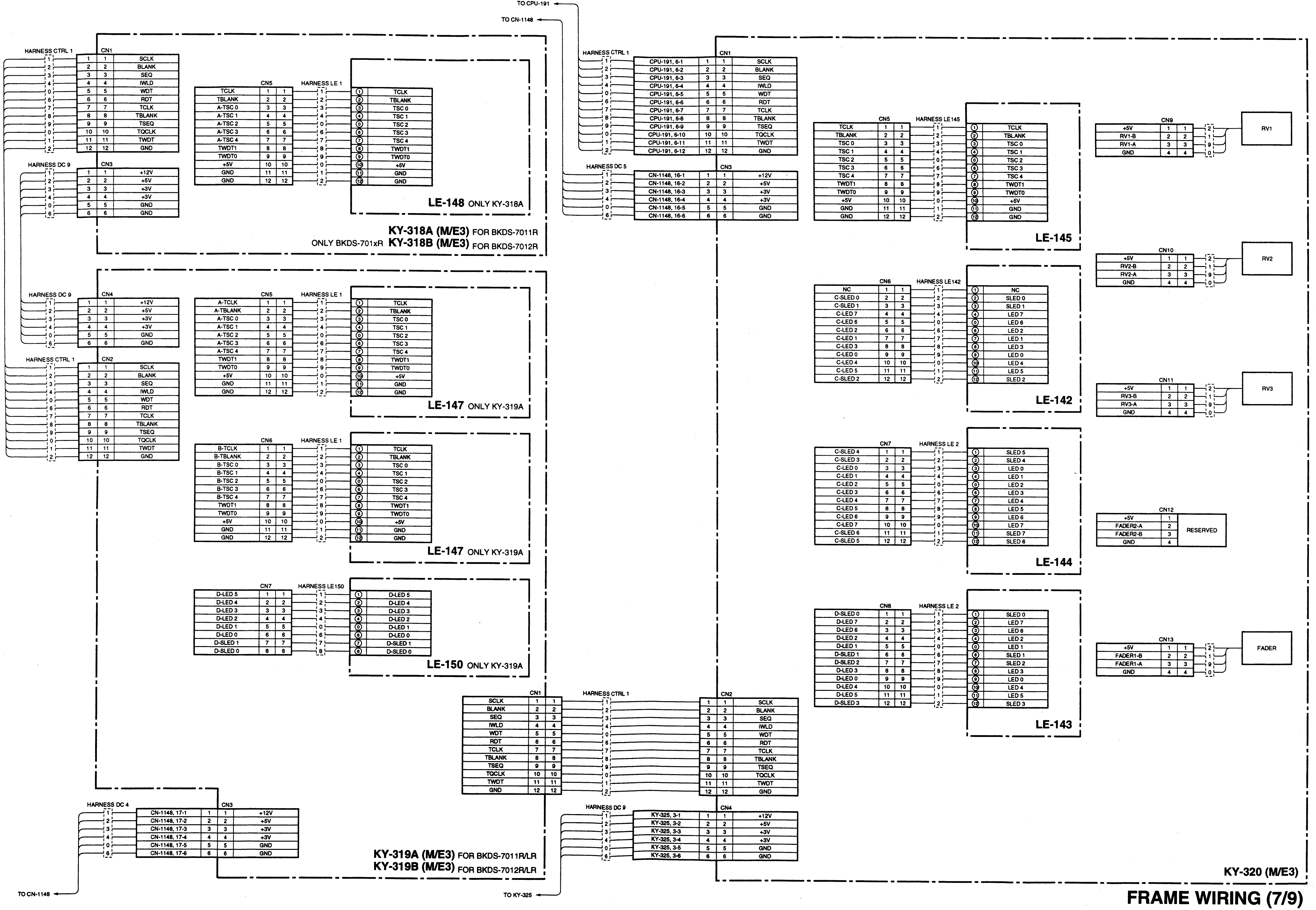
BKDS-701xR/701xLR FRAME (6/9)


TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
GND
CN5
HARNESS LE 1
LE-148 ONLY KY-318A
KY-318A (M/E2) FOR BKDS-7011R
ONLY BKDS-701xR KY-318B (M/E2) FOR BKDS-7012R
CN4
CN2
LE-147 ONLY KY-319A
LE-147 ONLY KY-319A
CN7
HARNESS LE150
LE-150 ONLY KY-319A
HARNESS DC 3
KY-319A (M/E2) FOR BKDS-7011R/LR
KY-319B (M/E2) FOR BKDS-7012R/LR
TO CN-1148
TO KY-324
HARNESS DC 6
HARNESS LE145
LE-145
CN6
HARNESS LE142
LE-142
HARNESS LE 2
LE-144
CN8
LE-143
CN9
RV1
CN10
RV2
CN11
RV3
CN12
RESERVED
CN13
FADER
KY-321 (M/E2) FOR BKDS-7011R/LR
KY-367 (M/E2) FOR BKDS-7012R/LR

FRAME WIRING (6/9)
BKDS-701xR/701xLR

2-45

BKDS-701xR/701xLR FRAME (7/9)

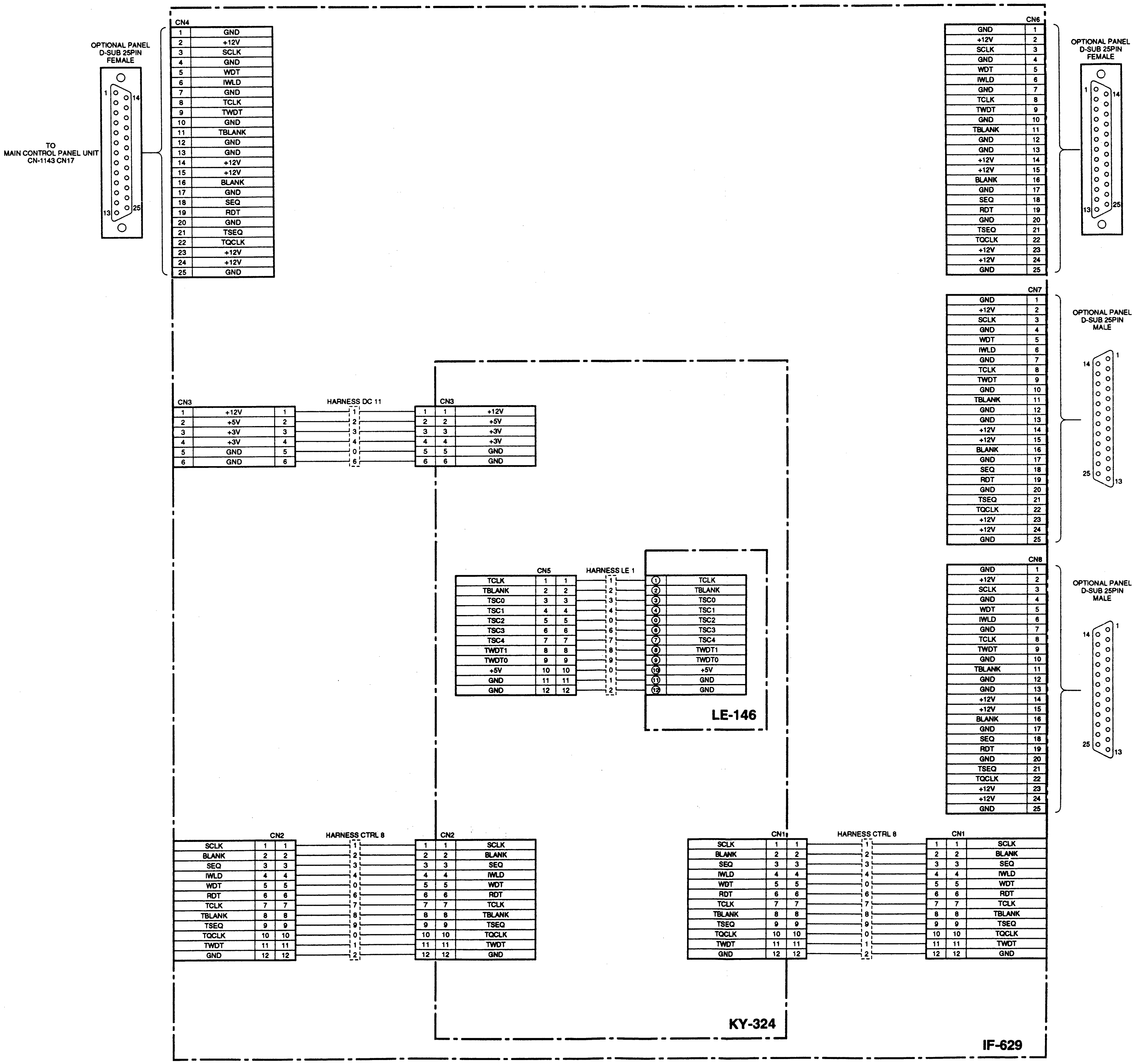

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
CN5
HARNESS LE 1
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
LE-148 ONLY KY-318A
KY-318A (M/E3) FOR BKDS-7011R
ONLY BKDS-701xR KY-318B (M/E3) FOR BKDS-7012R
CN4
CN2
LE-147 ONLY KY-319A
CN6
LE-147 ONLY KY-319A
CN7
HARNESS LE150
LE-150 ONLY KY-319A
HARNESS DC 4
KY-319A (M/E3) FOR BKDS-7011R/LR
KY-319B (M/E3) FOR BKDS-7012R/LR
TO CN-1148
TO KY-325
HARNESS DC 5
HARNESS LE145
LE-145
HARNESS LE142
LE-142
HARNESS LE 2
LE-144
LE-143
CN8
CN9
RV1
CN10
RV2
CN11
RV3
CN12
RESERVED
CN13
FADER
KY-320 (M/E3)

FRAME WIRING (7/9)

BKDS-701xR/701xLR

2-46

BKDS-701xR/701xLR FRAME (8/9)

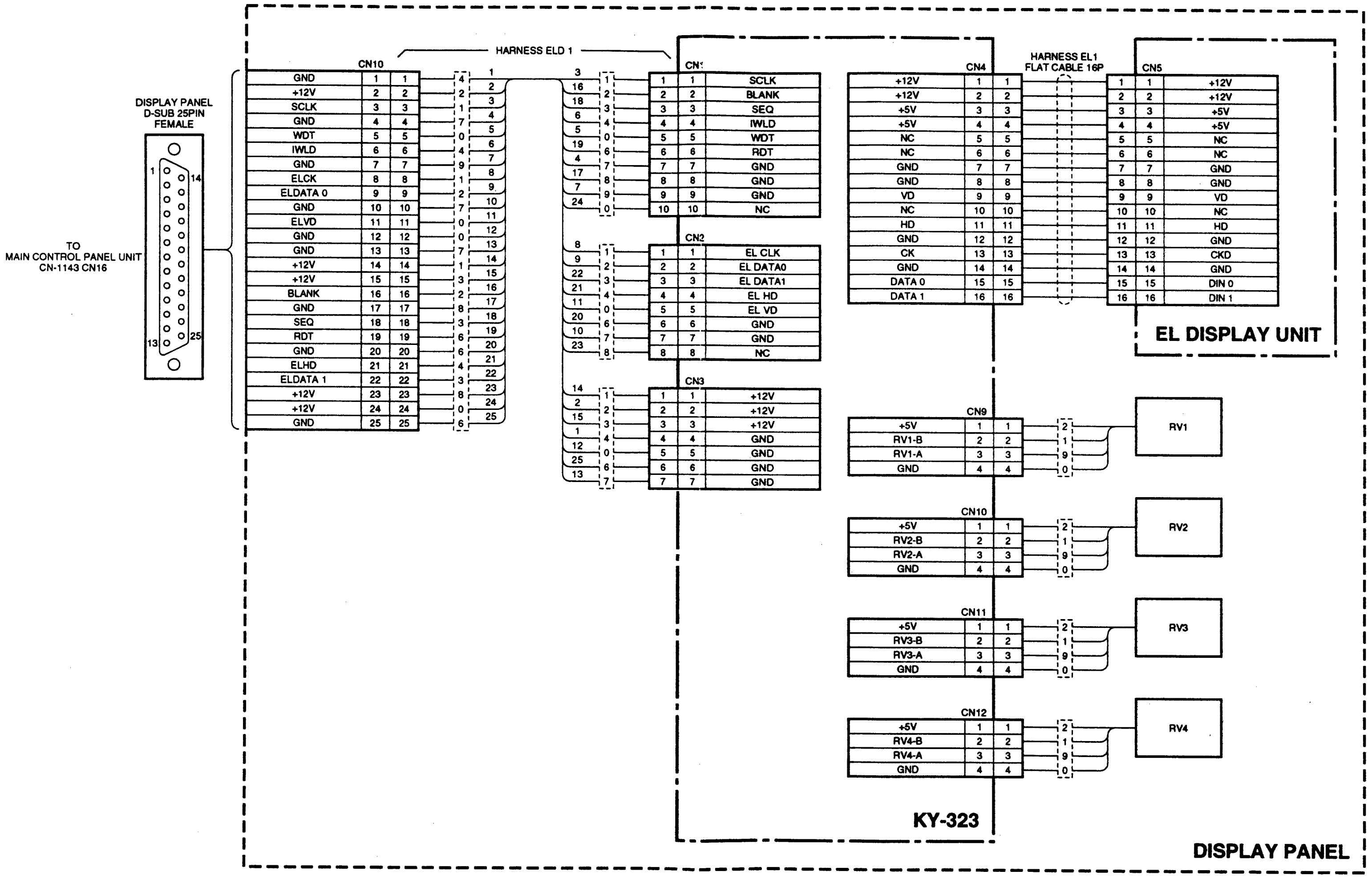

OPTIONAL PANEL
D-SUB 25PIN
FEMALE
TO
MAIN CONTROL PANEL UNIT
CN-1143 CN17
CN4
GND
+12V
SCLK
WDT
IWLD
TCLK
TWDT
TBLANK
BLANK
SEQ
RDT
TSEQ
TQCLK
CN6
CN7
CN8
OPTIONAL PANEL
D-SUB 25PIN
MALE
CN3
HARNESS DC 11
+5V
+3V
CN5
HARNESS LE 1
TSC0
TSC1
TSC2
TSC3
TSC4
TWDT1
TWDT0
LE-146
CN2
HARNESS CTRL 8
CN1
KY-324
IF-629

FRAME WIRING (8/9)

BKDS-701xR/701xLR

2-47

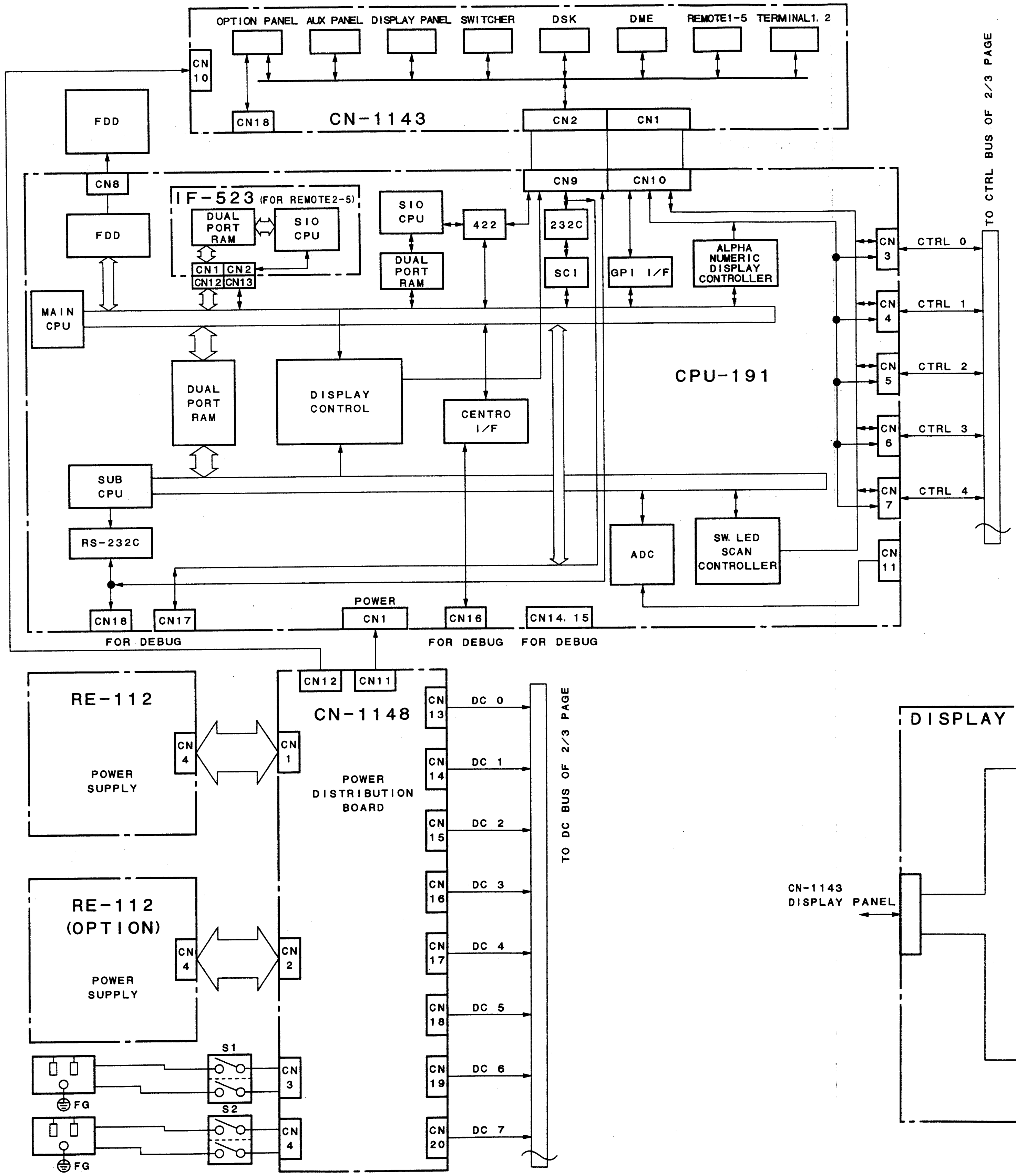
BKDS-701xR/701xLR FRAME (9/9)

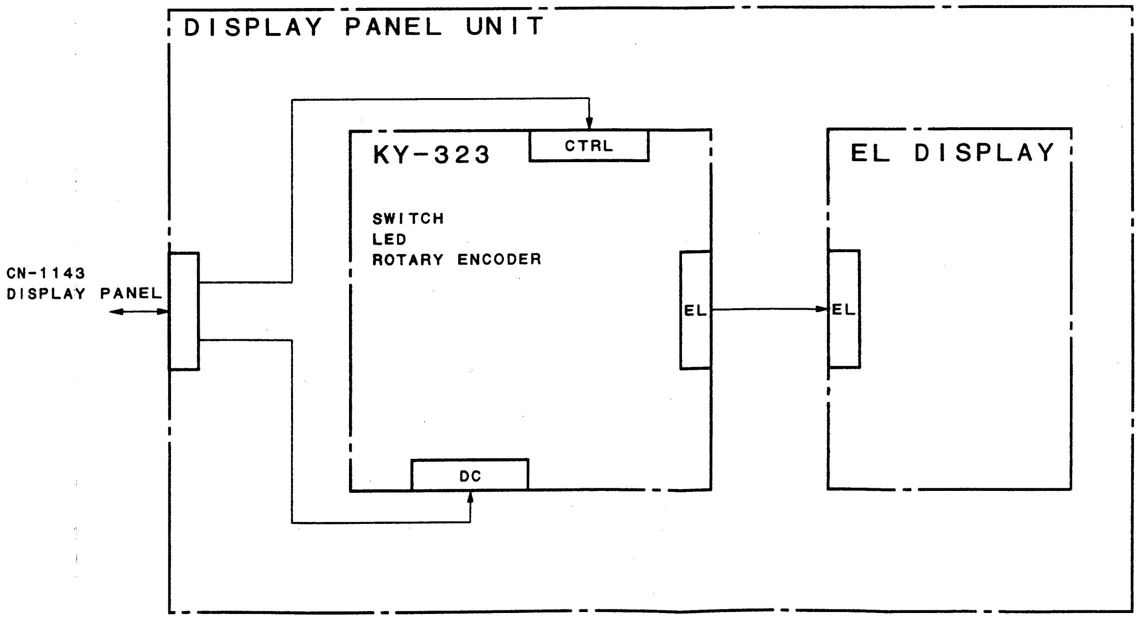

TO MAIN CONTROL PANEL UNIT CN-1143 CN16
DISPLAY PANEL D-SUB 25PIN FEMALE
CN10
GND, +12V, SCLK, GND, WDT, IWLD, GND, ELCK, ELDATA 0, GND, ELVD, GND, GND, +12V, +12V, BLANK, GND, SEQ, RDT, GND, ELHD, ELDATA 1, +12V, +12V, GND
HARNESS ELD 1
CN1
SCLK, BLANK, SEQ, IWLD, WDT, RDT, GND, GND, GND, NC
CN2
EL CLK, EL DATA0, EL DATA1, EL HD, EL VD, GND, GND, NC
CN3
+12V, +12V, +12V, GND, GND, GND, GND
CN4
+12V, +12V, +5V, +5V, NC, NC, GND, GND, VD, NC, HD, GND, CK, GND, DATA 0, DATA 1
HARNESS EL1 FLAT CABLE 16P
CN5
+12V, +12V, +5V, +5V, NC, NC, GND, GND, VD, NC, HD, GND, CKD, GND, DIN 0, DIN 1
EL DISPLAY UNIT
CN9
+5V, RV1-B, RV1-A, GND
RV1
CN10
+5V, RV2-B, RV2-A, GND
RV2
CN11
+5V, RV3-B, RV3-A, GND
RV3
CN12
+5V, RV4-B, RV4-A, GND
RV4
KY-323
DISPLAY PANEL

FRAME WIRING (9/9)
BKDS-701xR/701xLR

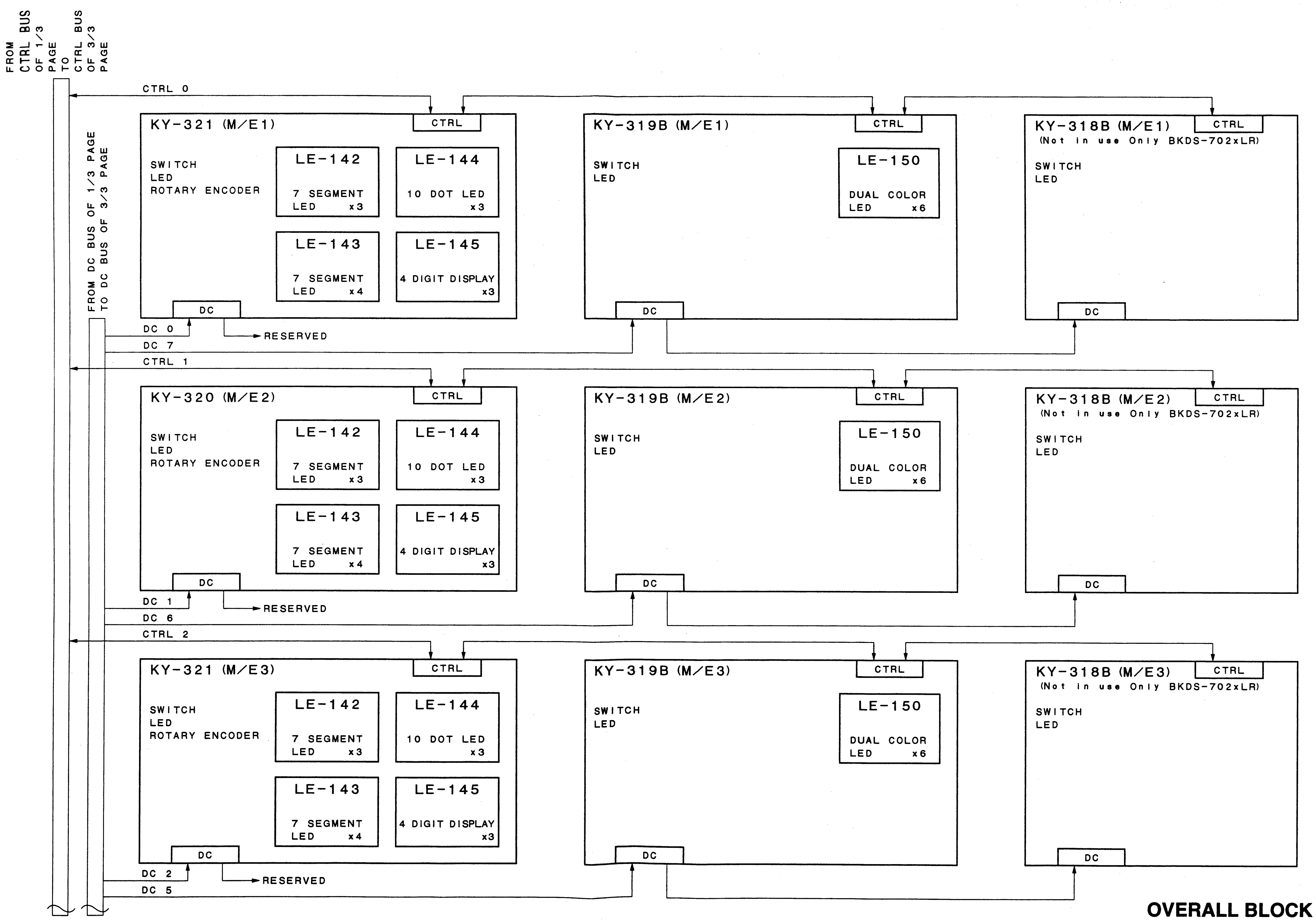
2-48

2-7. BKDS-702xR/702xLR
BKDS-702xR/702xLR OVERALL BLOCK


OPTION PANEL
AUX PANEL
DISPLAY PANEL
SWITCHER
DSK
DME
REMOTE1-5
TERMINAL1, 2
CN 10
CN18
CN-1143
CN2
CN1
TO CTRL BUS OF 2/3 PAGE
FDD
CN8
FDD
IF-523 (FOR REMOTE2-5)
DUAL PORT RAM
SIO CPU
CN1
CN2
CN12
CN13
SIO CPU
DUAL PORT RAM
422
CN9
CN10
232C
SCI
GPI I/F
ALPHA NUMERIC DISPLAY CONTROLLER
CN 3
CTRL 0
CN 4
CTRL 1
CN 5
CTRL 2
CN 6
CTRL 3
CN 7
CTRL 4
CN 11
MAIN CPU
DUAL PORT RAM
DISPLAY CONTROL
CENTRO I/F
CPU-191
SUB CPU
RS-232C
ADC
SW. LED SCAN CONTROLLER
CN18
CN17
POWER
CN1
CN16
CN14, 15
FOR DEBUG
FOR DEBUG
FOR DEBUG
RE-112
POWER SUPPLY
CN 4
CN12
CN11
CN-1148
CN 1
POWER DISTRIBUTION BOARD
CN 13
DC 0
CN 14
DC 1
CN 15
DC 2
CN 16
DC 3
CN 17
DC 4
CN 18
DC 5
CN 19
DC 6
CN 20
DC 7
TO DC BUS OF 2/3 PAGE
RE-112 (OPTION)
POWER SUPPLY
CN 4
CN 2
S1
S2
CN 3
CN 4
FG
FG


DISPLAY PANEL UNIT
CN-1143 DISPLAY PANEL
KY-323
CTRL
SWITCH
LED
ROTARY ENCODER
EL
DC
EL DISPLAY
EL

BKDS-702xR/702xLR OVERALL (2/3)

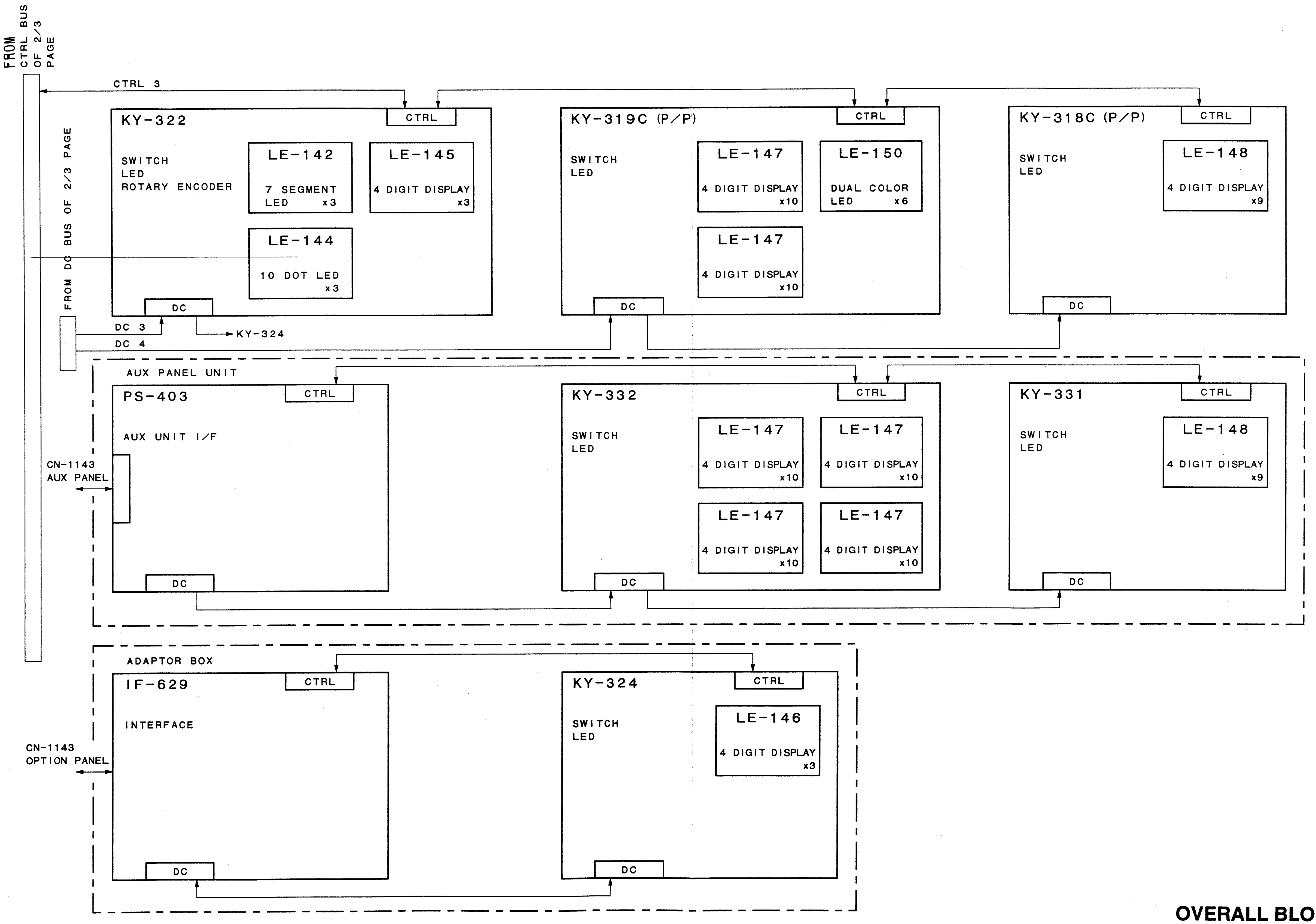

FROM CTRL BUS OF 1/3 PAGE
TO CTRL BUS OF 3/3 PAGE
FROM DC BUS OF 1/3 PAGE
TO DC BUS OF 3/3 PAGE
CTRL 0
KY-321 (M/E1)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 0
DC 7
RESERVED
KY-319B (M/E1)
CTRL
SWITCH
LED
LE-150
DUAL COLOR LED x6
DC
KY-318B (M/E1)
CTRL
(Not in use Only BKDS-702xLR)
SWITCH
LED
DC
CTRL 1
KY-320 (M/E2)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 1
DC 6
RESERVED
KY-319B (M/E2)
CTRL
SWITCH
LED
LE-150
DUAL COLOR LED x6
DC
KY-318B (M/E2)
CTRL
(Not in use Only BKDS-702xLR)
SWITCH
LED
DC
CTRL 2
KY-321 (M/E3)
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-144
10 DOT LED x3
LE-143
7 SEGMENT LED x4
LE-145
4 DIGIT DISPLAY x3
DC
DC 2
DC 5
RESERVED
KY-319B (M/E3)
CTRL
SWITCH
LED
LE-150
DUAL COLOR LED x6
DC
KY-318B (M/E3)
CTRL
(Not in use Only BKDS-702xLR)
SWITCH
LED
DC

OVERALL BLOCK (2/3)

BKDS-702xR/702xLR

2-50

BKDS-702xR/702xLR OVERALL (3/3)

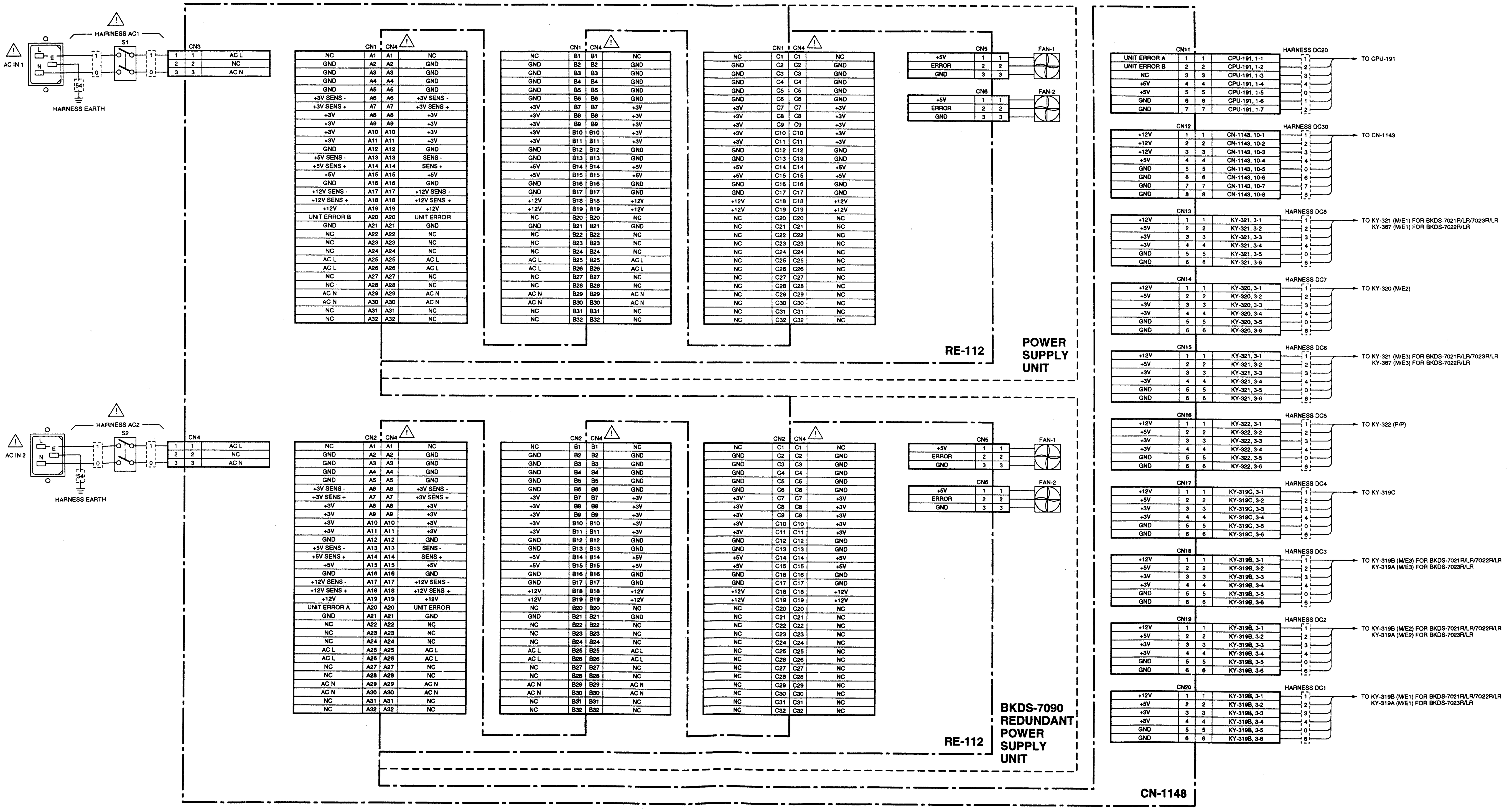

FROM CTRL BUS OF 2/3 PAGE
CTRL 3
FROM DC BUS OF 2/3 PAGE
DC 3
DC 4
KY-324
KY-322
CTRL
SWITCH
LED
ROTARY ENCODER
LE-142
7 SEGMENT LED x3
LE-145
4 DIGIT DISPLAY x3
LE-144
10 DOT LED x3
DC
KY-319C (P/P)
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-150
DUAL COLOR LED x6
LE-147
4 DIGIT DISPLAY x10
DC
KY-318C (P/P)
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
AUX PANEL UNIT
PS-403
CTRL
AUX UNIT I/F
CN-1143
AUX PANEL
DC
KY-332
CTRL
SWITCH
LED
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
LE-147
4 DIGIT DISPLAY x10
DC
KY-331
CTRL
SWITCH
LED
LE-148
4 DIGIT DISPLAY x9
DC
ADAPTOR BOX
IF-629
CTRL
INTERFACE
CN-1143
OPTION PANEL
DC
KY-324
CTRL
SWITCH
LED
LE-146
4 DIGIT DISPLAY x3
DC

OVERALL BLOCK (3/3)

BKDS-702xR/702xLR

2-51

BKDS-702xR/702xLR FRAME WIRING


⚠
AC IN 1
L
E
N
HARNESS AC1
S1
1
0
54
HARNESS EARTH
CN3
⚠
AC IN 2
HARNESS AC2
S2
HARNESS EARTH
CN4
CN1
CN4
CN2
FAN-1
FAN-2
CN5
CN6
RE-112
POWER SUPPLY UNIT
RE-112
BKDS-7090 REDUNDANT POWER SUPPLY UNIT
CN-1148
HARNESS DC20
TO CPU-191
HARNESS DC30
TO CN-1143
HARNESS DC8
TO KY-321 (M/E1) FOR BKDS-7021R/LR/7023R/LR
KY-367 (M/E1) FOR BKDS-7022R/LR
HARNESS DC7
TO KY-320 (M/E2)
HARNESS DC6
TO KY-321 (M/E3) FOR BKDS-7021R/LR/7023R/LR
KY-367 (M/E3) FOR BKDS-7022R/LR
HARNESS DC5
TO KY-322 (P/P)
HARNESS DC4
TO KY-319C
HARNESS DC3
TO KY-319B (M/E3) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E3) FOR BKDS-7023R/LR
HARNESS DC2
TO KY-319B (M/E2) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E2) FOR BKDS-7023R/LR
HARNESS DC1
TO KY-319B (M/E1) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E1) FOR BKDS-7023R/LR

CN3

1	1	AC L
2	2	NC
3	3	AC N

	CN1	CN4	
NC	A1	A1	NC
GND	A2	A2	GND
GND	A3	A3	GND
GND	A4	A4	GND
GND	A5	A5	GND
+3V SENS -	A6	A6	+3V SENS -
+3V SENS +	A7	A7	+3V SENS +
+3V	A8	A8	+3V
+3V	A9	A9	+3V
+3V	A10	A10	+3V
+3V	A11	A11	+3V
GND	A12	A12	GND
+5V SENS -	A13	A13	SENS -
+5V SENS +	A14	A14	SENS +
+5V	A15	A15	+5V
GND	A16	A16	GND
+12V SENS -	A17	A17	+12V SENS -
+12V SENS +	A18	A18	+12V SENS +
+12V	A19	A19	+12V
UNIT ERROR B	A20	A20	UNIT ERROR
GND	A21	A21	GND
NC	A22	A22	NC
NC	A23	A23	NC
NC	A24	A24	NC
AC L	A25	A25	AC L
AC L	A26	A26	AC L
NC	A27	A27	NC
NC	A28	A28	NC
AC N	A29	A29	AC N
AC N	A30	A30	AC N
NC	A31	A31	NC
NC	A32	A32	NC

	CN1	CN4	
NC	B1	B1	NC
GND	B2	B2	GND
GND	B3	B3	GND
GND	B4	B4	GND
GND	B5	B5	GND
GND	B6	B6	GND
+3V	B7	B7	+3V
+3V	B8	B8	+3V
+3V	B9	B9	+3V
+3V	B10	B10	+3V
+3V	B11	B11	+3V
GND	B12	B12	GND
GND	B13	B13	GND
+5V	B14	B14	+5V
+5V	B15	B15	+5V
GND	B16	B16	GND
GND	B17	B17	GND
+12V	B18	B18	+12V
+12V	B19	B19	+12V
NC	B20	B20	NC
GND	B21	B21	GND
NC	B22	B22	NC
NC	B23	B23	NC
NC	B24	B24	NC
AC L	B25	B25	AC L
AC L	B26	B26	AC L
NC	B27	B27	NC
NC	B28	B28	NC
AC N	B29	B29	AC N
AC N	B30	B30	AC N
NC	B31	B31	NC
NC	B32	B32	NC

	CN1	CN4	
NC	C1	C1	NC
GND	C2	C2	GND
GND	C3	C3	GND
GND	C4	C4	GND
GND	C5	C5	GND
GND	C6	C6	GND
+3V	C7	C7	+3V
+3V	C8	C8	+3V
+3V	C9	C9	+3V
+3V	C10	C10	+3V
+3V	C11	C11	+3V
GND	C12	C12	GND
GND	C13	C13	GND
+5V	C14	C14	+5V
+5V	C15	C15	+5V
GND	C16	C16	GND
GND	C17	C17	GND
+12V	C18	C18	+12V
+12V	C19	C19	+12V
NC	C20	C20	NC
NC	C21	C21	NC
NC	C22	C22	NC
NC	C23	C23	NC
NC	C24	C24	NC
NC	C25	C25	NC
NC	C26	C26	NC
NC	C27	C27	NC
NC	C28	C28	NC
NC	C29	C29	NC
NC	C30	C30	NC
NC	C31	C31	NC
NC	C32	C32	NC

CN5

+5V	1	1
ERROR	2	2
GND	3	3

CN6

+5V	1	1
ERROR	2	2
GND	3	3

CN4

1	1	AC L
2	2	NC
3	3	AC N

	CN2	CN4	
NC	A1	A1	NC
GND	A2	A2	GND
GND	A3	A3	GND
GND	A4	A4	GND
GND	A5	A5	GND
+3V SENS -	A6	A6	+3V SENS -
+3V SENS +	A7	A7	+3V SENS +
+3V	A8	A8	+3V
+3V	A9	A9	+3V
+3V	A10	A10	+3V
+3V	A11	A11	+3V
GND	A12	A12	GND
+5V SENS -	A13	A13	SENS -
+5V SENS +	A14	A14	SENS +
+5V	A15	A15	+5V
GND	A16	A16	GND
+12V SENS -	A17	A17	+12V SENS -
+12V SENS +	A18	A18	+12V SENS +
+12V	A19	A19	+12V
UNIT ERROR A	A20	A20	UNIT ERROR
GND	A21	A21	GND
NC	A22	A22	NC
NC	A23	A23	NC
NC	A24	A24	NC
AC L	A25	A25	AC L
AC L	A26	A26	AC L
NC	A27	A27	NC
NC	A28	A28	NC
AC N	A29	A29	AC N
AC N	A30	A30	AC N
NC	A31	A31	NC
NC	A32	A32	NC

	CN2	CN4	
NC	B1	B1	NC
GND	B2	B2	GND
GND	B3	B3	GND
GND	B4	B4	GND
GND	B5	B5	GND
GND	B6	B6	GND
+3V	B7	B7	+3V
+3V	B8	B8	+3V
+3V	B9	B9	+3V
+3V	B10	B10	+3V
+3V	B11	B11	+3V
GND	B12	B12	GND
GND	B13	B13	GND
+5V	B14	B14	+5V
+5V	B15	B15	+5V
GND	B16	B16	GND
GND	B17	B17	GND
+12V	B18	B18	+12V
+12V	B19	B19	+12V
NC	B20	B20	NC
GND	B21	B21	GND
NC	B22	B22	NC
NC	B23	B23	NC
NC	B24	B24	NC
AC L	B25	B25	AC L
AC L	B26	B26	AC L
NC	B27	B27	NC
NC	B28	B28	NC
AC N	B29	B29	AC N
AC N	B30	B30	AC N
NC	B31	B31	NC
NC	B32	B32	NC

	CN2	CN4	
NC	C1	C1	NC
GND	C2	C2	GND
GND	C3	C3	GND
GND	C4	C4	GND
GND	C5	C5	GND
GND	C6	C6	GND
+3V	C7	C7	+3V
+3V	C8	C8	+3V
+3V	C9	C9	+3V
+3V	C10	C10	+3V
+3V	C11	C11	+3V
GND	C12	C12	GND
GND	C13	C13	GND
+5V	C14	C14	+5V
+5V	C15	C15	+5V
GND	C16	C16	GND
GND	C17	C17	GND
+12V	C18	C18	+12V
+12V	C19	C19	+12V
NC	C20	C20	NC
NC	C21	C21	NC
NC	C22	C22	NC
NC	C23	C23	NC
NC	C24	C24	NC
NC	C25	C25	NC
NC	C26	C26	NC
NC	C27	C27	NC
NC	C28	C28	NC
NC	C29	C29	NC
NC	C30	C30	NC
NC	C31	C31	NC
NC	C32	C32	NC

CN5

+5V	1	1
ERROR	2	2
GND	3	3

CN6

+5V	1	1
ERROR	2	2
GND	3	3

CN11 — HARNESS DC20

UNIT ERROR A	1	1	CPU-191, 1-1	1
UNIT ERROR B	2	2	CPU-191, 1-2	2
NC	3	3	CPU-191, 1-3	3
+5V	4	4	CPU-191, 1-4	4
+5V	5	5	CPU-191, 1-5	0
GND	6	6	CPU-191, 1-6	1
GND	7	7	CPU-191, 1-7	2

CN12 — HARNESS DC30

+12V	1	1	CN-1143, 10-1	1
+12V	2	2	CN-1143, 10-2	2
+12V	3	3	CN-1143, 10-3	3
+5V	4	4	CN-1143, 10-4	4
GND	5	5	CN-1143, 10-5	0
GND	6	6	CN-1143, 10-6	6
GND	7	7	CN-1143, 10-7	7
GND	8	8	CN-1143, 10-8	8

CN13 — HARNESS DC8

+12V	1	1	KY-321, 3-1	1
+5V	2	2	KY-321, 3-2	2
+3V	3	3	KY-321, 3-3	3
+3V	4	4	KY-321, 3-4	4
GND	5	5	KY-321, 3-5	0
GND	6	6	KY-321, 3-6	6

CN14 — HARNESS DC7

+12V	1	1	KY-320, 3-1	1
+5V	2	2	KY-320, 3-2	2
+3V	3	3	KY-320, 3-3	3
+3V	4	4	KY-320, 3-4	4
GND	5	5	KY-320, 3-5	0
GND	6	6	KY-320, 3-6	6

CN15 — HARNESS DC6

+12V	1	1	KY-321, 3-1	1
+5V	2	2	KY-321, 3-2	2
+3V	3	3	KY-321, 3-3	3
+3V	4	4	KY-321, 3-4	4
GND	5	5	KY-321, 3-5	0
GND	6	6	KY-321, 3-6	6

CN16 — HARNESS DC5

+12V	1	1	KY-322, 3-1	1
+5V	2	2	KY-322, 3-2	2
+3V	3	3	KY-322, 3-3	3
+3V	4	4	KY-322, 3-4	4
GND	5	5	KY-322, 3-5	0
GND	6	6	KY-322, 3-6	6

CN17 — HARNESS DC4

+12V	1	1	KY-319C, 3-1	1
+5V	2	2	KY-319C, 3-2	2
+3V	3	3	KY-319C, 3-3	3
+3V	4	4	KY-319C, 3-4	4
GND	5	5	KY-319C, 3-5	0
GND	6	6	KY-319C, 3-6	6

CN18 — HARNESS DC3

+12V	1	1	KY-319B, 3-1	1
+5V	2	2	KY-319B, 3-2	2
+3V	3	3	KY-319B, 3-3	3
+3V	4	4	KY-319B, 3-4	4
GND	5	5	KY-319B, 3-5	0
GND	6	6	KY-319B, 3-6	6

CN19 — HARNESS DC2

+12V	1	1	KY-319B, 3-1	1
+5V	2	2	KY-319B, 3-2	2
+3V	3	3	KY-319B, 3-3	3
+3V	4	4	KY-319B, 3-4	4
GND	5	5	KY-319B, 3-5	0
GND	6	6	KY-319B, 3-6	6

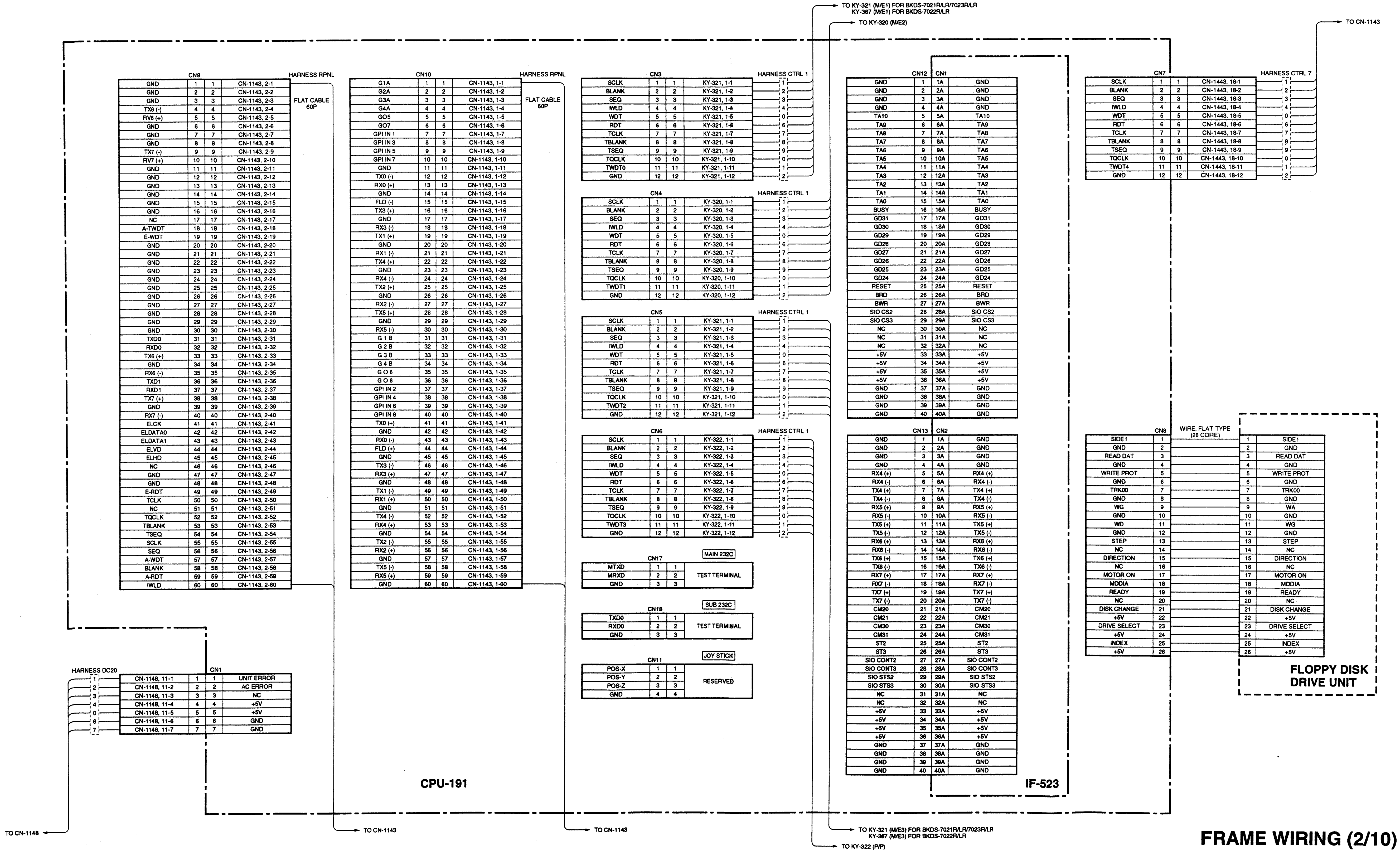
CN20 — HARNESS DC1

+12V	1	1	KY-319B, 3-1	1
+5V	2	2	KY-319B, 3-2	2
+3V	3	3	KY-319B, 3-3	3
+3V	4	4	KY-319B, 3-4	4
GND	5	5	KY-319B, 3-5	0
GND	6	6	KY-319B, 3-6	6

FRAME WIRING (1/10)

BKDS-702xR/702xLR
BKDS-7090

BKDS-702xR/702xLR FRAME (2/10)



CN9 — HARNESS RPNL — FLAT CABLE 60P

GND	1	1	CN-1143, 2-1
GND	2	2	CN-1143, 2-2
GND	3	3	CN-1143, 2-3
TX6 (-)	4	4	CN-1143, 2-4
RV6 (+)	5	5	CN-1143, 2-5
GND	6	6	CN-1143, 2-6
GND	7	7	CN-1143, 2-7
GND	8	8	CN-1143, 2-8
TX7 (-)	9	9	CN-1143, 2-9
RV7 (+)	10	10	CN-1143, 2-10
GND	11	11	CN-1143, 2-11
GND	12	12	CN-1143, 2-12
GND	13	13	CN-1143, 2-13
GND	14	14	CN-1143, 2-14
GND	15	15	CN-1143, 2-15
GND	16	16	CN-1143, 2-16
NC	17	17	CN-1143, 2-17
A-TWDT	18	18	CN-1143, 2-18
E-WDT	19	19	CN-1143, 2-19
GND	20	20	CN-1143, 2-20
GND	21	21	CN-1143, 2-21
GND	22	22	CN-1143, 2-22
GND	23	23	CN-1143, 2-23
GND	24	24	CN-1143, 2-24
GND	25	25	CN-1143, 2-25
GND	26	26	CN-1143, 2-26
GND	27	27	CN-1143, 2-27
GND	28	28	CN-1143, 2-28
GND	29	29	CN-1143, 2-29
GND	30	30	CN-1143, 2-30
TXD0	31	31	CN-1143, 2-31
RXD0	32	32	CN-1143, 2-32
TX6 (+)	33	33	CN-1143, 2-33
GND	34	34	CN-1143, 2-34
RX6 (-)	35	35	CN-1143, 2-35
TXD1	36	36	CN-1143, 2-36
RXD1	37	37	CN-1143, 2-37
TX7 (+)	38	38	CN-1143, 2-38
GND	39	39	CN-1143, 2-39
RX7 (-)	40	40	CN-1143, 2-40
ELCK	41	41	CN-1143, 2-41
ELDATA0	42	42	CN-1143, 2-42
ELDATA1	43	43	CN-1143, 2-43
ELVD	44	44	CN-1143, 2-44
ELHD	45	45	CN-1143, 2-45
NC	46	46	CN-1143, 2-46
GND	47	47	CN-1143, 2-47
GND	48	48	CN-1143, 2-48
E-RDT	49	49	CN-1143, 2-49
TCLK	50	50	CN-1143, 2-50
NC	51	51	CN-1143, 2-51
TQCLK	52	52	CN-1143, 2-52
TBLANK	53	53	CN-1143, 2-53
TSEQ	54	54	CN-1143, 2-54
SCLK	55	55	CN-1143, 2-55
SEQ	56	56	CN-1143, 2-56
A-WDT	57	57	CN-1143, 2-57
BLANK	58	58	CN-1143, 2-58
A-RDT	59	59	CN-1143, 2-59
IWLD	60	60	CN-1143, 2-60

CN10 — HARNESS RPNL — FLAT CABLE 60P

G1A	1	1	CN-1143, 1-1
G2A	2	2	CN-1143, 1-2
G3A	3	3	CN-1143, 1-3
G4A	4	4	CN-1143, 1-4
GO5	5	5	CN-1143, 1-5
GO7	6	6	CN-1143, 1-6
GPI IN 1	7	7	CN-1143, 1-7
GPI IN 3	8	8	CN-1143, 1-8
GPI IN 5	9	9	CN-1143, 1-9
GPI IN 7	10	10	CN-1143, 1-10
GND	11	11	CN-1143, 1-11
TX0 (-)	12	12	CN-1143, 1-12
RX0 (+)	13	13	CN-1143, 1-13
GND	14	14	CN-1143, 1-14
FLD (-)	15	15	CN-1143, 1-15
TX3 (+)	16	16	CN-1143, 1-16
GND	17	17	CN-1143, 1-17
RX3 (-)	18	18	CN-1143, 1-18
TX1 (+)	19	19	CN-1143, 1-19
GND	20	20	CN-1143, 1-20
RX1 (-)	21	21	CN-1143, 1-21
TX4 (+)	22	22	CN-1143, 1-22
GND	23	23	CN-1143, 1-23
RX4 (-)	24	24	CN-1143, 1-24
TX2 (+)	25	25	CN-1143, 1-25
GND	26	26	CN-1143, 1-26
RX2 (-)	27	27	CN-1143, 1-27
TX5 (+)	28	28	CN-1143, 1-28
GND	29	29	CN-1143, 1-29
RX5 (-)	30	30	CN-1143, 1-30
G 1 B	31	31	CN-1143, 1-31
G 2 B	32	32	CN-1143, 1-32
G 3 B	33	33	CN-1143, 1-33
G 4 B	34	34	CN-1143, 1-34
G O 6	35	35	CN-1143, 1-35
G O 8	36	36	CN-1143, 1-36
GPI IN 2	37	37	CN-1143, 1-37
GPI IN 4	38	38	CN-1143, 1-38
GPI IN 6	39	39	CN-1143, 1-39
GPI IN 8	40	40	CN-1143, 1-40
TX0 (+)	41	41	CN-1143, 1-41
GND	42	42	CN-1143, 1-42
RX0 (-)	43	43	CN-1143, 1-43
FLD (+)	44	44	CN-1143, 1-44
GND	45	45	CN-1143, 1-45
TX3 (-)	46	46	CN-1143, 1-46
RX3 (+)	47	47	CN-1143, 1-47
GND	48	48	CN-1143, 1-48
TX1 (-)	49	49	CN-1143, 1-49
RX1 (+)	50	50	CN-1143, 1-50
GND	51	51	CN-1143, 1-51
TX4 (-)	52	52	CN-1143, 1-52
RX4 (+)	53	53	CN-1143, 1-53
GND	54	54	CN-1143, 1-54
TX2 (-)	55	55	CN-1143, 1-55
RX2 (+)	56	56	CN-1143, 1-56
GND	57	57	CN-1143, 1-57
TX5 (-)	58	58	CN-1143, 1-58
RX5 (+)	59	59	CN-1143, 1-59
GND	60	60	CN-1143, 1-60

CN3 — HARNESS CTRL 1

SCLK	1	1	KY-321, 1-1	1
BLANK	2	2	KY-321, 1-2	2
SEQ	3	3	KY-321, 1-3	3
IWLD	4	4	KY-321, 1-4	4
WDT	5	5	KY-321, 1-5	0
RDT	6	6	KY-321, 1-6	6
TCLK	7	7	KY-321, 1-7	7
TBLANK	8	8	KY-321, 1-8	8
TSEQ	9	9	KY-321, 1-9	9
TQCLK	10	10	KY-321, 1-10	0
TWDT0	11	11	KY-321, 1-11	1
GND	12	12	KY-321, 1-12	2

CN4 — HARNESS CTRL 1

SCLK	1	1	KY-320, 1-1	1
BLANK	2	2	KY-320, 1-2	2
SEQ	3	3	KY-320, 1-3	3
IWLD	4	4	KY-320, 1-4	4
WDT	5	5	KY-320, 1-5	0
RDT	6	6	KY-320, 1-6	6
TCLK	7	7	KY-320, 1-7	7
TBLANK	8	8	KY-320, 1-8	8
TSEQ	9	9	KY-320, 1-9	9
TQCLK	10	10	KY-320, 1-10	0
TWDT1	11	11	KY-320, 1-11	1
GND	12	12	KY-320, 1-12	2

CN5 — HARNESS CTRL 1

SCLK	1	1	KY-321, 1-1	1
BLANK	2	2	KY-321, 1-2	2
SEQ	3	3	KY-321, 1-3	3
IWLD	4	4	KY-321, 1-4	4
WDT	5	5	KY-321, 1-5	0
RDT	6	6	KY-321, 1-6	6
TCLK	7	7	KY-321, 1-7	7
TBLANK	8	8	KY-321, 1-8	8
TSEQ	9	9	KY-321, 1-9	9
TQCLK	10	10	KY-321, 1-10	0
TWDT2	11	11	KY-321, 1-11	1
GND	12	12	KY-321, 1-12	2

CN6 — HARNESS CTRL 1

SCLK	1	1	KY-322, 1-1	1
BLANK	2	2	KY-322, 1-2	2
SEQ	3	3	KY-322, 1-3	3
IWLD	4	4	KY-322, 1-4	4
WDT	5	5	KY-322, 1-5	0
RDT	6	6	KY-322, 1-6	6
TCLK	7	7	KY-322, 1-7	7
TBLANK	8	8	KY-322, 1-8	8
TSEQ	9	9	KY-322, 1-9	9
TQCLK	10	10	KY-322, 1-10	0
TWDT3	11	11	KY-322, 1-11	1
GND	12	12	KY-322, 1-12	2

CN17 — MAIN 232C

MTXD	1	1	TEST TERMINAL
MRXD	2	2	
GND	3	3	

CN18 — SUB 232C

TXD0	1	1	TEST TERMINAL
RXD0	2	2	
GND	3	3	

CN11 — JOY STICK

POS-X	1	1	RESERVED
POS-Y	2	2	
POS-Z	3	3	
GND	4	4	

CN1 — HARNESS DC20

1	CN-1148, 11-1	1	1	UNIT ERROR
2	CN-1148, 11-2	2	2	AC ERROR
3	CN-1148, 11-3	3	3	NC
4	CN-1148, 11-4	4	4	+5V
0	CN-1148, 11-5	5	5	+5V
6	CN-1148, 11-6	6	6	GND
7	CN-1148, 11-7	7	7	GND

	CN12	CN1	
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
TA10	5	5A	TA10
TA9	6	6A	TA9
TA8	7	7A	TA8
TA7	8	8A	TA7
TA6	9	9A	TA6
TA5	10	10A	TA5
TA4	11	11A	TA4
TA3	12	12A	TA3
TA2	13	13A	TA2
TA1	14	14A	TA1
TA0	15	15A	TA0
BUSY	16	16A	BUSY
GD31	17	17A	GD31
GD30	18	18A	GD30
GD29	19	19A	GD29
GD28	20	20A	GD28
GD27	21	21A	GD27
GD26	22	22A	GD26
GD25	23	23A	GD25
GD24	24	24A	GD24
RESET	25	25A	RESET
BRD	26	26A	BRD
BWR	27	27A	BWR
SIO CS2	28	28A	SIO CS2
SIO CS3	29	29A	SIO CS3
NC	30	30A	NC
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

	CN13	CN2	
GND	1	1A	GND
GND	2	2A	GND
GND	3	3A	GND
GND	4	4A	GND
RX4 (+)	5	5A	RX4 (+)
RX4 (-)	6	6A	RX4 (-)
TX4 (+)	7	7A	TX4 (+)
TX4 (-)	8	8A	TX4 (-)
RX5 (+)	9	9A	RX5 (+)
RX5 (-)	10	10A	RX5 (-)
TX5 (+)	11	11A	TX5 (+)
TX5 (-)	12	12A	TX5 (-)
RX6 (+)	13	13A	RX6 (+)
RX6 (-)	14	14A	RX6 (-)
TX6 (+)	15	15A	TX6 (+)
TX6 (-)	16	16A	TX6 (-)
RX7 (+)	17	17A	RX7 (+)
RX7 (-)	18	18A	RX7 (-)
TX7 (+)	19	19A	TX7 (+)
TX7 (-)	20	20A	TX7 (-)
CM20	21	21A	CM20
CM21	22	22A	CM21
CM30	23	23A	CM30
CM31	24	24A	CM31
ST2	25	25A	ST2
ST3	26	26A	ST3
SIO CONT2	27	27A	SIO CONT2
SIO CONT3	28	28A	SIO CONT3
SIO STS2	29	29A	SIO STS2
SIO STS3	30	30A	SIO STS3
NC	31	31A	NC
NC	32	32A	NC
+5V	33	33A	+5V
+5V	34	34A	+5V
+5V	35	35A	+5V
+5V	36	36A	+5V
GND	37	37A	GND
GND	38	38A	GND
GND	39	39A	GND
GND	40	40A	GND

CN7 — HARNESS CTRL 7

SCLK	1	1	CN-1443, 18-1	1
BLANK	2	2	CN-1443, 18-2	2
SEQ	3	3	CN-1443, 18-3	3
IWLD	4	4	CN-1443, 18-4	4
WDT	5	5	CN-1443, 18-5	0
RDT	6	6	CN-1443, 18-6	6
TCLK	7	7	CN-1443, 18-7	7
TBLANK	8	8	CN-1443, 18-8	8
TSEQ	9	9	CN-1443, 18-9	9
TQCLK	10	10	CN-1443, 18-10	0
TWDT4	11	11	CN-1443, 18-11	1
GND	12	12	CN-1443, 18-12	2

CN8 — WIRE, FLAT TYPE (26 CORE) — FLOPPY DISK DRIVE UNIT

	CN8		
SIDE1	1	1	SIDE1
GND	2	2	GND
READ DAT	3	3	READ DAT
GND	4	4	GND
WRITE PROT	5	5	WRITE PROT
GND	6	6	GND
TRK00	7	7	TRK00
GND	8	8	GND
WG	9	9	WA
GND	10	10	GND
WD	11	11	WG
GND	12	12	GND
STEP	13	13	STEP
NC	14	14	NC
DIRECTION	15	15	DIRECTION
NC	16	16	NC
MOTOR ON	17	17	MOTOR ON
MDDIA	18	18	MDDIA
READY	19	19	READY
NC	20	20	NC
DISK CHANGE	21	21	DISK CHANGE
+5V	22	22	+5V
DRIVE SELECT	23	23	DRIVE SELECT
+5V	24	24	+5V
INDEX	25	25	INDEX
+5V	26	26	+5V

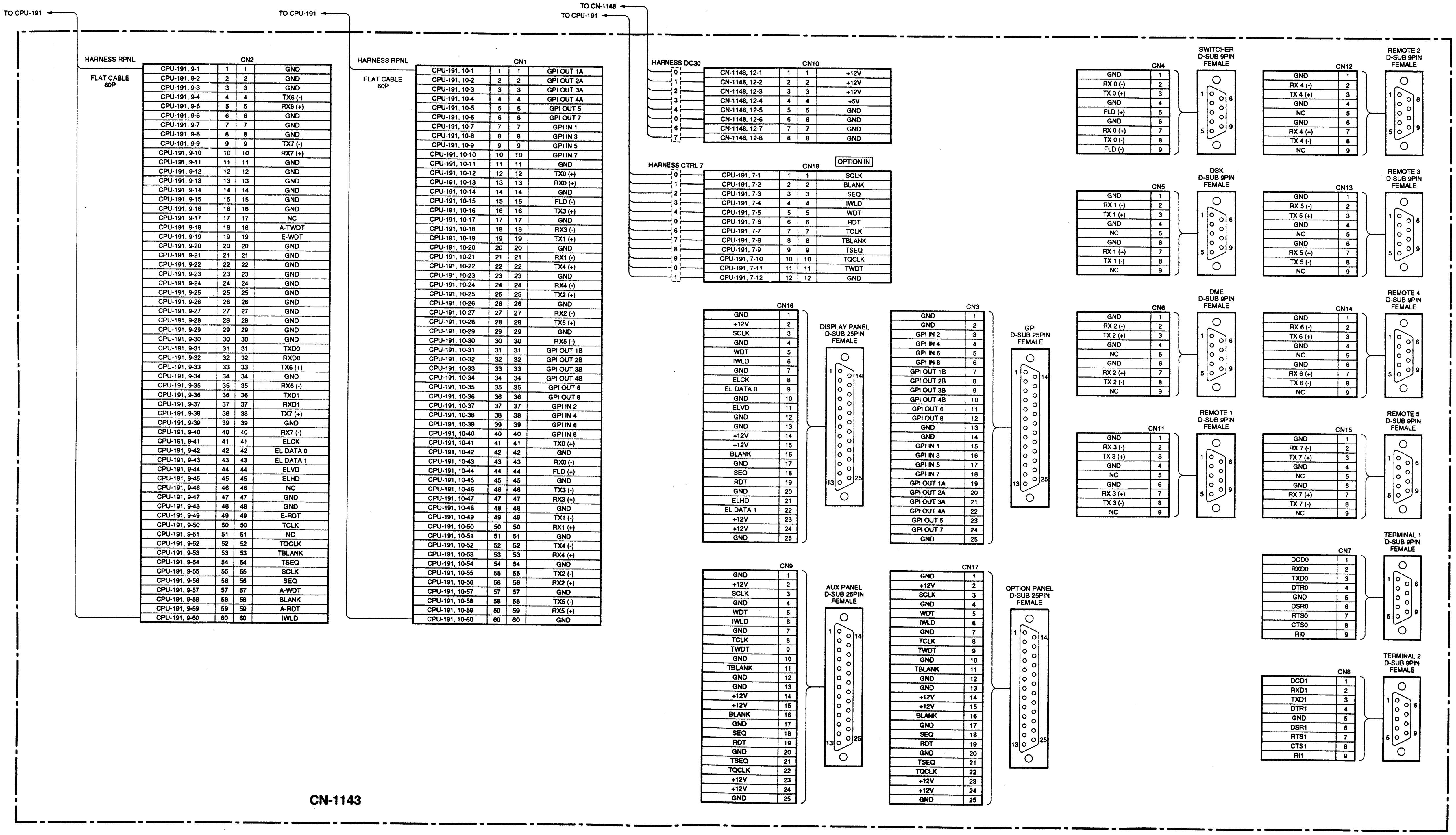
FRAME WIRING (2/10)

BKDS-702xR/702xLR

2-53

BKDS-702xR/702xLR FRAME (3/10)

BKDS-702xR/702xLR FRAME (3/10)


TO CPU-191
TO CPU-191
TO CN-1148
TO CPU-191
HARNESS RPNL
FLAT CABLE 60P
HARNESS RPNL
FLAT CABLE 60P
HARNESS DC30
0
1
2
3
4
0
6
7
HARNESS CTRL 7
0
1
2
3
4
0
6
7
8
9
0
1
OPTION IN
DISPLAY PANEL D-SUB 25PIN FEMALE
GPI D-SUB 25PIN FEMALE
AUX PANEL D-SUB 25PIN FEMALE
OPTION PANEL D-SUB 25PIN FEMALE
SWITCHER D-SUB 9PIN FEMALE
DSK D-SUB 9PIN FEMALE
DME D-SUB 9PIN FEMALE
REMOTE 1 D-SUB 9PIN FEMALE
REMOTE 2 D-SUB 9PIN FEMALE
REMOTE 3 D-SUB 9PIN FEMALE
REMOTE 4 D-SUB 9PIN FEMALE
REMOTE 5 D-SUB 9PIN FEMALE
TERMINAL 1 D-SUB 9PIN FEMALE
TERMINAL 2 D-SUB 9PIN FEMALE
1
14
13
25
1
6
5
9
CN-1143

CN2

CPU-191, 9-1	1	1	GND
CPU-191, 9-2	2	2	GND
CPU-191, 9-3	3	3	GND
CPU-191, 9-4	4	4	TX6 (-)
CPU-191, 9-5	5	5	RX6 (+)
CPU-191, 9-6	6	6	GND
CPU-191, 9-7	7	7	GND
CPU-191, 9-8	8	8	GND
CPU-191, 9-9	9	9	TX7 (-)
CPU-191, 9-10	10	10	RX7 (+)
CPU-191, 9-11	11	11	GND
CPU-191, 9-12	12	12	GND
CPU-191, 9-13	13	13	GND
CPU-191, 9-14	14	14	GND
CPU-191, 9-15	15	15	GND
CPU-191, 9-16	16	16	GND
CPU-191, 9-17	17	17	NC
CPU-191, 9-18	18	18	A-TWDT
CPU-191, 9-19	19	19	E-WDT
CPU-191, 9-20	20	20	GND
CPU-191, 9-21	21	21	GND
CPU-191, 9-22	22	22	GND
CPU-191, 9-23	23	23	GND
CPU-191, 9-24	24	24	GND
CPU-191, 9-25	25	25	GND
CPU-191, 9-26	26	26	GND
CPU-191, 9-27	27	27	GND
CPU-191, 9-28	28	28	GND
CPU-191, 9-29	29	29	GND
CPU-191, 9-30	30	30	GND
CPU-191, 9-31	31	31	TXD0
CPU-191, 9-32	32	32	RXD0
CPU-191, 9-33	33	33	TX6 (+)
CPU-191, 9-34	34	34	GND
CPU-191, 9-35	35	35	RX6 (-)
CPU-191, 9-36	36	36	TXD1
CPU-191, 9-37	37	37	RXD1
CPU-191, 9-38	38	38	TX7 (+)
CPU-191, 9-39	39	39	GND
CPU-191, 9-40	40	40	RX7 (-)
CPU-191, 9-41	41	41	ELCK
CPU-191, 9-42	42	42	EL DATA 0
CPU-191, 9-43	43	43	EL DATA 1
CPU-191, 9-44	44	44	ELVD
CPU-191, 9-45	45	45	ELHD
CPU-191, 9-46	46	46	NC
CPU-191, 9-47	47	47	GND
CPU-191, 9-48	48	48	GND
CPU-191, 9-49	49	49	E-RDT
CPU-191, 9-50	50	50	TCLK
CPU-191, 9-51	51	51	NC
CPU-191, 9-52	52	52	TQCLK
CPU-191, 9-53	53	53	TBLANK
CPU-191, 9-54	54	54	TSEQ
CPU-191, 9-55	55	55	SCLK
CPU-191, 9-56	56	56	SEQ
CPU-191, 9-57	57	57	A-WDT
CPU-191, 9-58	58	58	BLANK
CPU-191, 9-59	59	59	A-RDT
CPU-191, 9-60	60	60	IWLD

CN1

CPU-191, 10-1	1	1	GPI OUT 1A
CPU-191, 10-2	2	2	GPI OUT 2A
CPU-191, 10-3	3	3	GPI OUT 3A
CPU-191, 10-4	4	4	GPI OUT 4A
CPU-191, 10-5	5	5	GPI OUT 5
CPU-191, 10-6	6	6	GPI OUT 7
CPU-191, 10-7	7	7	GPI IN 1
CPU-191, 10-8	8	8	GPI IN 3
CPU-191, 10-9	9	9	GPI IN 5
CPU-191, 10-10	10	10	GPI IN 7
CPU-191, 10-11	11	11	GND
CPU-191, 10-12	12	12	TX0 (+)
CPU-191, 10-13	13	13	RX0 (+)
CPU-191, 10-14	14	14	GND
CPU-191, 10-15	15	15	FLD (-)
CPU-191, 10-16	16	16	TX3 (+)
CPU-191, 10-17	17	17	GND
CPU-191, 10-18	18	18	RX3 (-)
CPU-191, 10-19	19	19	TX1 (+)
CPU-191, 10-20	20	20	GND
CPU-191, 10-21	21	21	RX1 (-)
CPU-191, 10-22	22	22	TX4 (+)
CPU-191, 10-23	23	23	GND
CPU-191, 10-24	24	24	RX4 (-)
CPU-191, 10-25	25	25	TX2 (+)
CPU-191, 10-26	26	26	GND
CPU-191, 10-27	27	27	RX2 (-)
CPU-191, 10-28	28	28	TX5 (+)
CPU-191, 10-29	29	29	GND
CPU-191, 10-30	30	30	RX5 (-)
CPU-191, 10-31	31	31	GPI OUT 1B
CPU-191, 10-32	32	32	GPI OUT 2B
CPU-191, 10-33	33	33	GPI OUT 3B
CPU-191, 10-34	34	34	GPI OUT 4B
CPU-191, 10-35	35	35	GPI OUT 6
CPU-191, 10-36	36	36	GPI OUT 8
CPU-191, 10-37	37	37	GPI IN 2
CPU-191, 10-38	38	38	GPI IN 4
CPU-191, 10-39	39	39	GPI IN 6
CPU-191, 10-40	40	40	GPI IN 8
CPU-191, 10-41	41	41	TX0 (+)
CPU-191, 10-42	42	42	GND
CPU-191, 10-43	43	43	RX0 (-)
CPU-191, 10-44	44	44	FLD (+)
CPU-191, 10-45	45	45	GND
CPU-191, 10-46	46	46	TX3 (-)
CPU-191, 10-47	47	47	RX3 (+)
CPU-191, 10-48	48	48	GND
CPU-191, 10-49	49	49	TX1 (-)
CPU-191, 10-50	50	50	RX1 (+)
CPU-191, 10-51	51	51	GND
CPU-191, 10-52	52	52	TX4 (-)
CPU-191, 10-53	53	53	RX4 (+)
CPU-191, 10-54	54	54	GND
CPU-191, 10-55	55	55	TX2 (-)
CPU-191, 10-56	56	56	RX2 (+)
CPU-191, 10-57	57	57	GND
CPU-191, 10-58	58	58	TX5 (-)
CPU-191, 10-59	59	59	RX5 (+)
CPU-191, 10-60	60	60	GND

CN10

CN-1148, 12-1	1	1	+12V
CN-1148, 12-2	2	2	+12V
CN-1148, 12-3	3	3	+12V
CN-1148, 12-4	4	4	+5V
CN-1148, 12-5	5	5	GND
CN-1148, 12-6	6	6	GND
CN-1148, 12-7	7	7	GND
CN-1148, 12-8	8	8	GND

CN18

CPU-191, 7-1	1	1	SCLK
CPU-191, 7-2	2	2	BLANK
CPU-191, 7-3	3	3	SEQ
CPU-191, 7-4	4	4	IWLD
CPU-191, 7-5	5	5	WDT
CPU-191, 7-6	6	6	RDT
CPU-191, 7-7	7	7	TCLK
CPU-191, 7-8	8	8	TBLANK
CPU-191, 7-9	9	9	TSEQ
CPU-191, 7-10	10	10	TQCLK
CPU-191, 7-11	11	11	TWDT
CPU-191, 7-12	12	12	GND

CN16

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
ELCK	8
EL DATA 0	9
GND	10
ELVD	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
ELHD	21
EL DATA 1	22
+12V	23
+12V	24
GND	25

CN3

GND	1
GND	2
GPI IN 2	3
GPI IN 4	4
GPI IN 6	5
GPI IN 8	6
GPI OUT 1B	7
GPI OUT 2B	8
GPI OUT 3B	9
GPI OUT 4B	10
GPI OUT 6	11
GPI OUT 8	12
GND	13
GND	14
GPI IN 1	15
GPI IN 3	16
GPI IN 5	17
GPI IN 7	18
GPI OUT 1A	19
GPI OUT 2A	20
GPI OUT 3A	21
GPI OUT 4A	22
GPI OUT 5	23
GPI OUT 7	24
GND	25

CN9

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN17

GND	1
+12V	2
SCLK	3
GND	4
WDT	5
IWLD	6
GND	7
TCLK	8
TWDT	9
GND	10
TBLANK	11
GND	12
GND	13
+12V	14
+12V	15
BLANK	16
GND	17
SEQ	18
RDT	19
GND	20
TSEQ	21
TQCLK	22
+12V	23
+12V	24
GND	25

CN4

GND	1
RX 0 (-)	2
TX 0 (+)	3
GND	4
FLD (+)	5
GND	6
RX 0 (+)	7
TX 0 (-)	8
FLD (-)	9

CN5

GND	1
RX 1 (-)	2
TX 1 (+)	3
GND	4
NC	5
GND	6
RX 1 (+)	7
TX 1 (-)	8
NC	9

CN6

GND	1
RX 2 (-)	2
TX 2 (+)	3
GND	4
NC	5
GND	6
RX 2 (+)	7
TX 2 (-)	8
NC	9

CN11

GND	1
RX 3 (-)	2
TX 3 (+)	3
GND	4
NC	5
GND	6
RX 3 (+)	7
TX 3 (-)	8
NC	9

CN12

GND	1
RX 4 (-)	2
TX 4 (+)	3
GND	4
NC	5
GND	6
RX 4 (+)	7
TX 4 (-)	8
NC	9

CN13

GND	1
RX 5 (-)	2
TX 5 (+)	3
GND	4
NC	5
GND	6
RX 5 (+)	7
TX 5 (-)	8
NC	9

CN14

GND	1
RX 6 (-)	2
TX 6 (+)	3
GND	4
NC	5
GND	6
RX 6 (+)	7
TX 6 (-)	8
NC	9

CN15

GND	1
RX 7 (-)	2
TX 7 (+)	3
GND	4
NC	5
GND	6
RX 7 (+)	7
TX 7 (-)	8
NC	9

CN7

DCD0	1
RXD0	2
TXD0	3
DTR0	4
GND	5
DSR0	6
RTS0	7
CTS0	8
RI0	9

CN8

DCD1	1
RXD1	2
TXD1	3
DTR1	4
GND	5
DSR1	6
RTS1	7
CTS1	8
RI1	9

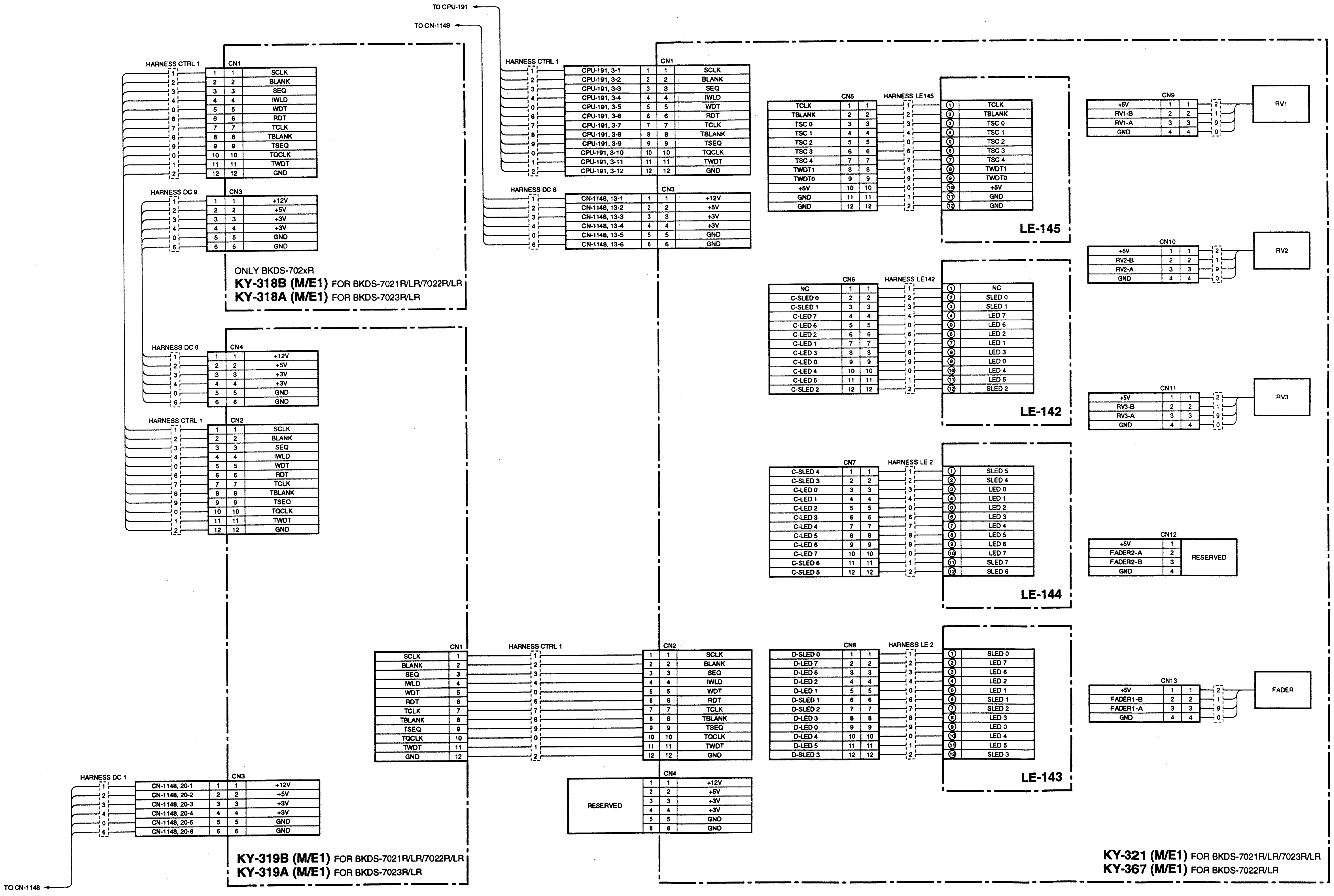
FRAME WIRING (3/10)

BKDS-702xR/702xLR

2-54

BKDS-702xR/702xLR FRAME (4/10)

BKDS-702xR/702xLR FRAME (4/10)

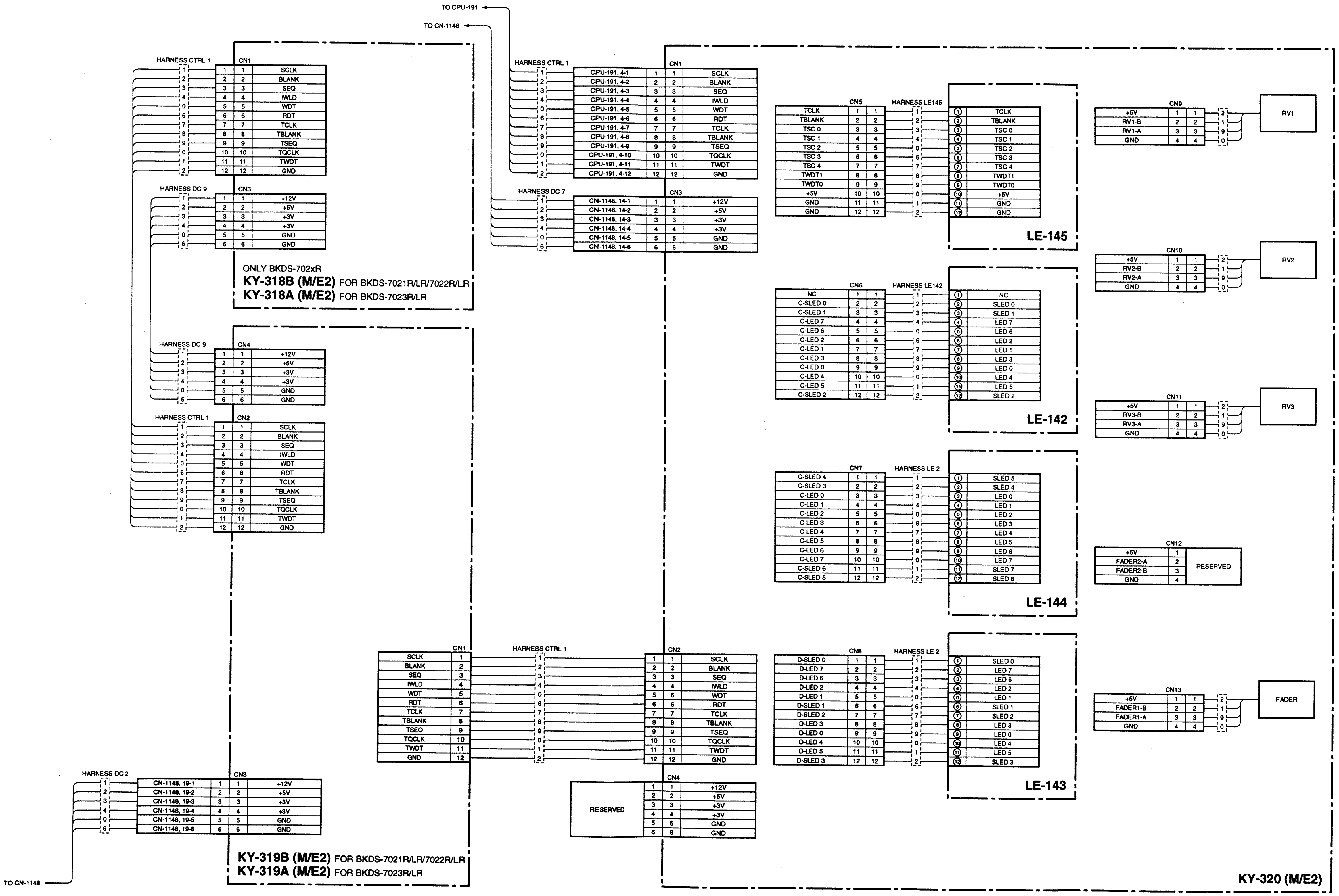

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
HARNESS DC 9
CN3
+12V +5V +3V +3V GND GND
ONLY BKDS-702xR
KY-318B (M/E1) FOR BKDS-7021R/LR/7022R/LR
KY-318A (M/E1) FOR BKDS-7023R/LR
HARNESS DC 9
CN4
+12V +5V +3V +3V GND GND
HARNESS CTRL 1
CN2
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
CN1
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
HARNESS DC 1
CN3
CN-1148, 20-1 CN-1148, 20-2 CN-1148, 20-3 CN-1148, 20-4 CN-1148, 20-5 CN-1148, 20-6
+12V +5V +3V +3V GND GND
KY-319B (M/E1) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E1) FOR BKDS-7023R/LR
TO CN-1148
HARNESS CTRL 1
CN1
CPU-191, 3-1 CPU-191, 3-2 CPU-191, 3-3 CPU-191, 3-4 CPU-191, 3-5 CPU-191, 3-6 CPU-191, 3-7 CPU-191, 3-8 CPU-191, 3-9 CPU-191, 3-10 CPU-191, 3-11 CPU-191, 3-12
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
HARNESS DC 8
CN3
CN-1148, 13-1 CN-1148, 13-2 CN-1148, 13-3 CN-1148, 13-4 CN-1148, 13-5 CN-1148, 13-6
+12V +5V +3V +3V GND GND
HARNESS CTRL 1
CN2
SCLK BLANK SEQ IWLD WDT RDT TCLK TBLANK TSEQ TQCLK TWDT GND
CN4
RESERVED
+12V +5V +3V +3V GND GND
CN5
HARNESS LE145
TCLK TBLANK TSC 0 TSC 1 TSC 2 TSC 3 TSC 4 TWDT1 TWDT0 +5V GND GND
LE-145
CN6
HARNESS LE142
NC C-SLED 0 C-SLED 1 C-LED 7 C-LED 6 C-LED 2 C-LED 1 C-LED 3 C-LED 0 C-LED 4 C-LED 5 C-SLED 2
NC SLED 0 SLED 1 LED 7 LED 6 LED 2 LED 1 LED 3 LED 0 LED 4 LED 5 SLED 2
LE-142
CN7
HARNESS LE 2
C-SLED 4 C-SLED 3 C-LED 0 C-LED 1 C-LED 2 C-LED 3 C-LED 4 C-LED 5 C-LED 6 C-LED 7 C-SLED 6 C-SLED 5
SLED 5 SLED 4 LED 0 LED 1 LED 2 LED 3 LED 4 LED 5 LED 6 LED 7 SLED 7 SLED 6
LE-144
CN8
HARNESS LE 2
D-SLED 0 D-LED 7 D-LED 6 D-LED 2 D-LED 1 D-SLED 1 D-SLED 2 D-LED 3 D-LED 0 D-LED 4 D-LED 5 D-SLED 3
SLED 0 LED 7 LED 6 LED 2 LED 1 SLED 1 SLED 2 LED 3 LED 0 LED 4 LED 5 SLED 3
LE-143
CN9
+5V RV1-B RV1-A GND
RV1
CN10
+5V RV2-B RV2-A GND
RV2
CN11
+5V RV3-B RV3-A GND
RV3
CN12
+5V FADER2-A FADER2-B GND
RESERVED
CN13
+5V FADER1-B FADER1-A GND
FADER
KY-321 (M/E1) FOR BKDS-7021R/LR/7023R/LR
KY-367 (M/E1) FOR BKDS-7022R/LR

FRAME WIRING (4/10)

BKDS-702xR/702xLR

2-55

BKDS-702xR/702xLR FRAME (5/10)

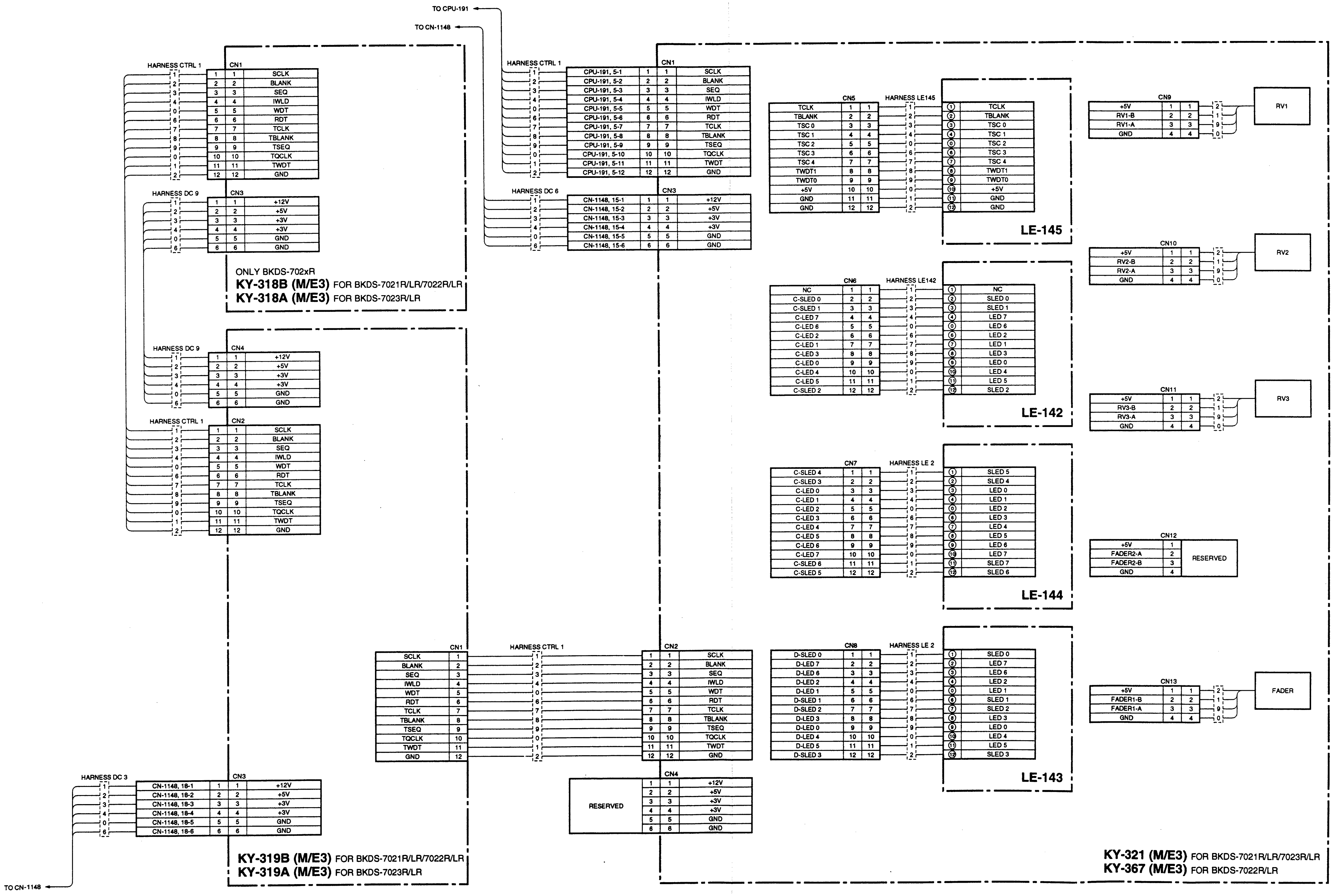

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
GND
ONLY BKDS-702xR
KY-318B (M/E2) FOR BKDS-7021R/LR/7022R/LR
KY-318A (M/E2) FOR BKDS-7023R/LR
CN4
CN2
HARNESS DC 7
CPU-191, 4-1 … CPU-191, 4-12
CN-1148, 14-1 … CN-1148, 14-6
CN5
HARNESS LE145
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
LE-145
CN6
HARNESS LE142
NC
C-SLED 0
C-SLED 1
C-LED 0 … C-LED 7
C-SLED 2
SLED 0
SLED 1
LED 0 … LED 7
SLED 2
LE-142
CN7
HARNESS LE 2
C-SLED 3 … C-SLED 6
SLED 3 … SLED 7
LE-144
CN8
D-SLED 0 … D-SLED 3
D-LED 0 … D-LED 7
LE-143
CN9
RV1-B
RV1-A
RV1
CN10
RV2-B
RV2-A
RV2
CN11
RV3-B
RV3-A
RV3
CN12
FADER2-A
FADER2-B
RESERVED
CN13
FADER1-B
FADER1-A
FADER
HARNESS DC 2
CN-1148, 19-1 … CN-1148, 19-6
TO CN-1148
KY-319B (M/E2) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E2) FOR BKDS-7023R/LR
RESERVED
KY-320 (M/E2)

FRAME WIRING (5/10)

BKDS-702xR/702xLR

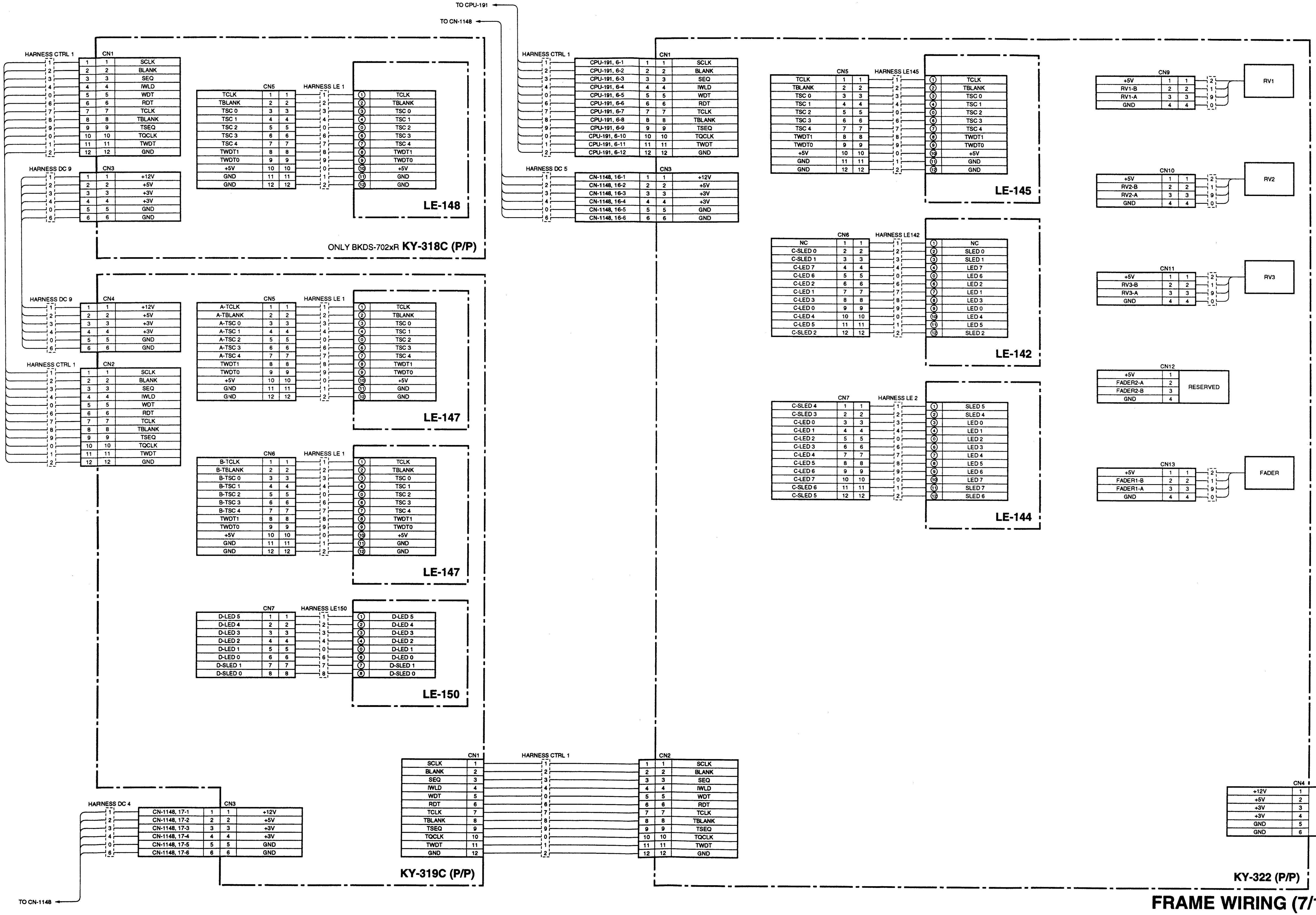
2-56

BKDS-702xR/702xLR FRAME (6/10)


TO CPU-191
TO CN-1148
HARNESS CTRL 1
HARNESS DC 9
HARNESS DC 6
HARNESS DC 3
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
+12V
+5V
+3V
ONLY BKDS-702xR
KY-318B (M/E3) FOR BKDS-7021R/LR/7022R/LR
KY-318A (M/E3) FOR BKDS-7023R/LR
KY-319B (M/E3) FOR BKDS-7021R/LR/7022R/LR
KY-319A (M/E3) FOR BKDS-7023R/LR
KY-321 (M/E3) FOR BKDS-7021R/LR/7023R/LR
KY-367 (M/E3) FOR BKDS-7022R/LR
HARNESS LE145
HARNESS LE142
HARNESS LE 2
LE-145
LE-142
LE-144
LE-143
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
NC
C-SLED 0
C-SLED 1
C-SLED 2
C-SLED 3
C-SLED 4
C-SLED 5
C-SLED 6
C-SLED 7
C-LED 0
C-LED 1
C-LED 2
C-LED 3
C-LED 4
C-LED 5
C-LED 6
C-LED 7
D-SLED 0
D-SLED 1
D-SLED 2
D-SLED 3
D-LED 0
D-LED 1
D-LED 2
D-LED 3
D-LED 4
D-LED 5
D-LED 6
D-LED 7
RV1-B
RV1-A
RV2-B
RV2-A
RV3-B
RV3-A
FADER2-A
FADER2-B
FADER1-B
FADER1-A
RV1
RV2
RV3
RESERVED
FADER
CPU-191, 5-1 … CPU-191, 5-12
CN-1148, 15-1 … CN-1148, 15-6
CN-1148, 18-1 … CN-1148, 18-6
TO CN-1148

2-57

BKDS-702xR/702xLR FRAME (7/10)

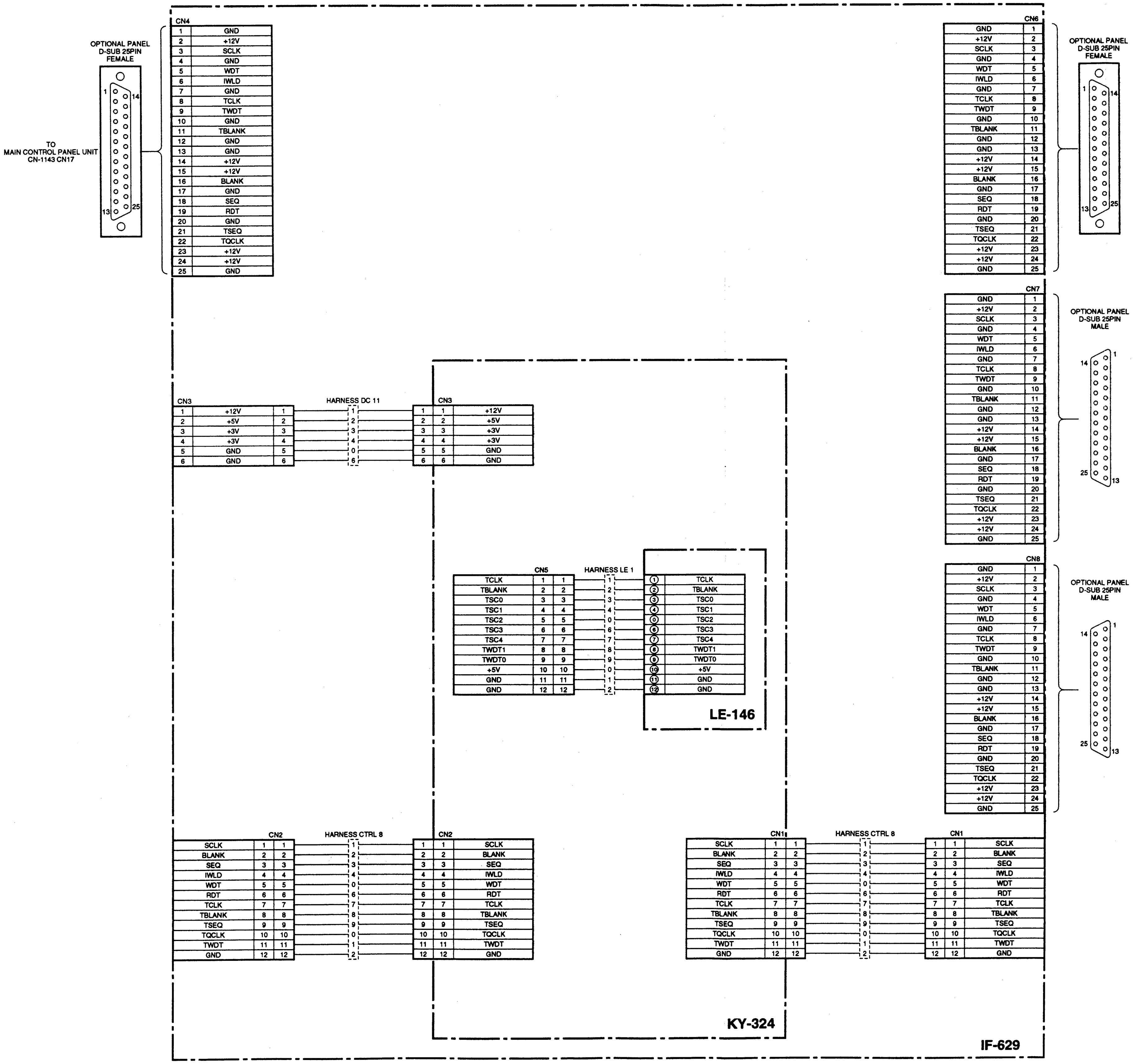

TO CPU-191
TO CN-1148
HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN3
+12V
+5V
+3V
GND
CN5
HARNESS LE 1
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
TWDT1
TWDT0
LE-148
ONLY BKDS-702xR KY-318C (P/P)
CN4
CN2
A-TCLK
A-TBLANK
A-TSC 0
LE-147
CN6
B-TCLK
B-TBLANK
B-TSC 0
LE-147
CN7
HARNESS LE150
D-LED 5
D-LED 4
D-LED 3
D-LED 2
D-LED 1
D-LED 0
D-SLED 1
D-SLED 0
LE-150
HARNESS DC 4
CN-1148, 17-1
KY-319C (P/P)
CPU-191, 6-1
HARNESS DC 5
CN-1148, 16-1
HARNESS LE145
LE-145
HARNESS LE142
NC
C-SLED 0
C-SLED 1
C-LED 7
C-LED 6
C-LED 2
C-LED 1
C-LED 3
C-LED 0
C-LED 4
C-LED 5
C-SLED 2
SLED 0
SLED 1
LED 7
LED 6
LED 2
LED 1
LED 3
LED 0
LED 4
LED 5
SLED 2
LE-142
HARNESS LE 2
C-SLED 4
C-SLED 3
C-SLED 6
C-SLED 5
LE-144
CN9
RV1-B
RV1-A
RV1
CN10
RV2-B
RV2-A
RV2
CN11
RV3-B
RV3-A
RV3
CN12
FADER2-A
FADER2-B
RESERVED
CN13
FADER1-B
FADER1-A
FADER
CN4
RESERVED
KY-322 (P/P)

FRAME WIRING (7/10)

BKDS-702xR/702xLR

2-58

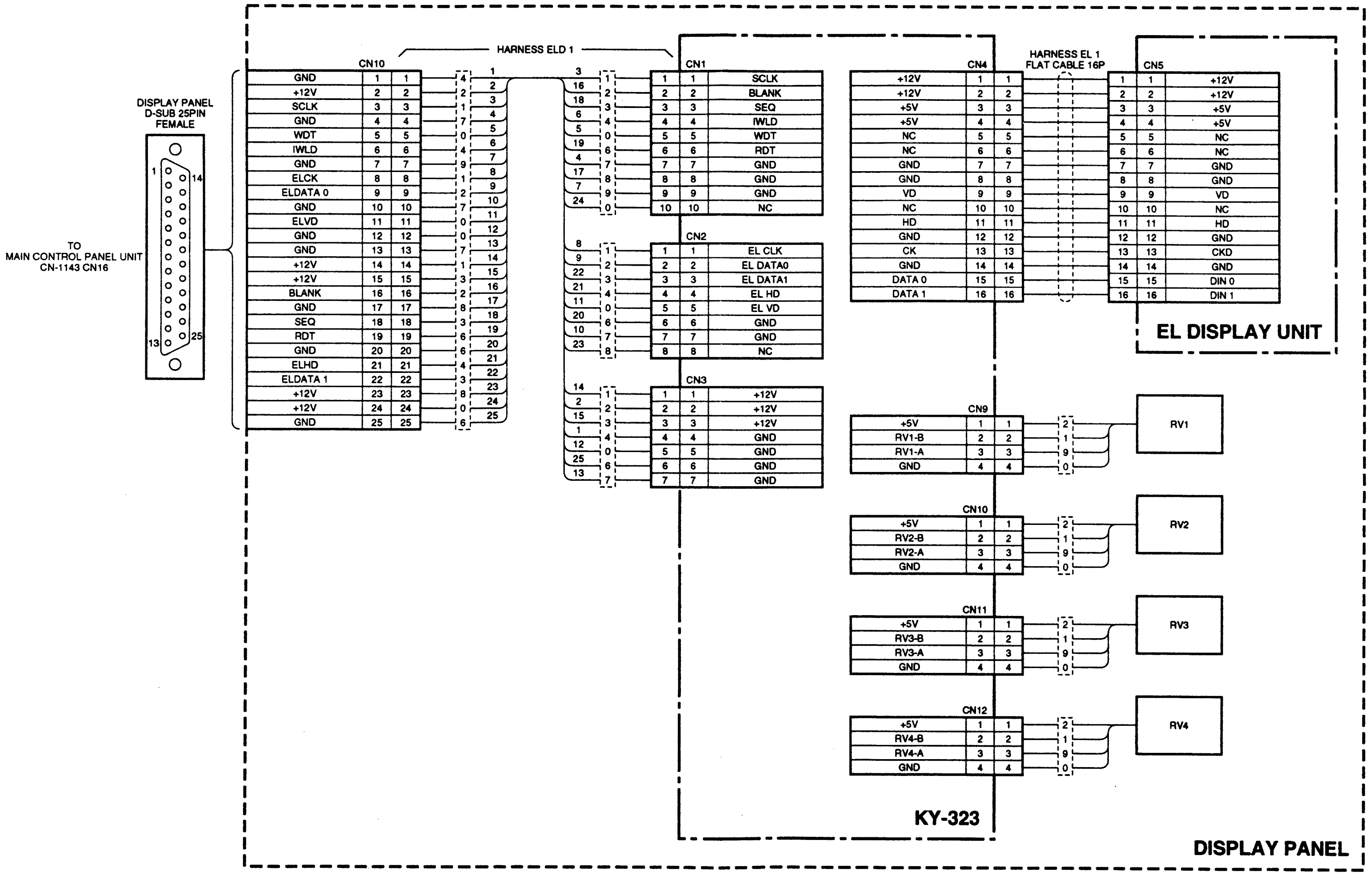
BKDS-702xR/702xLR FRAME (8/10)


OPTIONAL PANEL D-SUB 25PIN FEMALE
TO MAIN CONTROL PANEL UNIT CN-1143 CN17
CN4
1 GND
2 +12V
3 SCLK
4 GND
5 WDT
6 IWLD
7 GND
8 TCLK
9 TWDT
10 GND
11 TBLANK
12 GND
13 GND
14 +12V
15 +12V
16 BLANK
17 GND
18 SEQ
19 RDT
20 GND
21 TSEQ
22 TQCLK
23 +12V
24 +12V
25 GND
CN6
OPTIONAL PANEL D-SUB 25PIN FEMALE
CN7
OPTIONAL PANEL D-SUB 25PIN MALE
CN8
OPTIONAL PANEL D-SUB 25PIN MALE
CN3
HARNESS DC 11
1 +12V
2 +5V
3 +3V
4 +3V
5 GND
6 GND
CN5
HARNESS LE 1
1 TCLK
2 TBLANK
3 TSC0
4 TSC1
5 TSC2
6 TSC3
7 TSC4
8 TWDT1
9 TWDT0
10 +5V
11 GND
12 GND
LE-146
CN2
HARNESS CTRL 8
1 SCLK
2 BLANK
3 SEQ
4 IWLD
5 WDT
6 RDT
7 TCLK
8 TBLANK
9 TSEQ
10 TQCLK
11 TWDT
12 GND
CN1
HARNESS CTRL 8
KY-324
IF-629

FRAME WIRING (8/10)
BKDS-702xR/702xLR

2-59

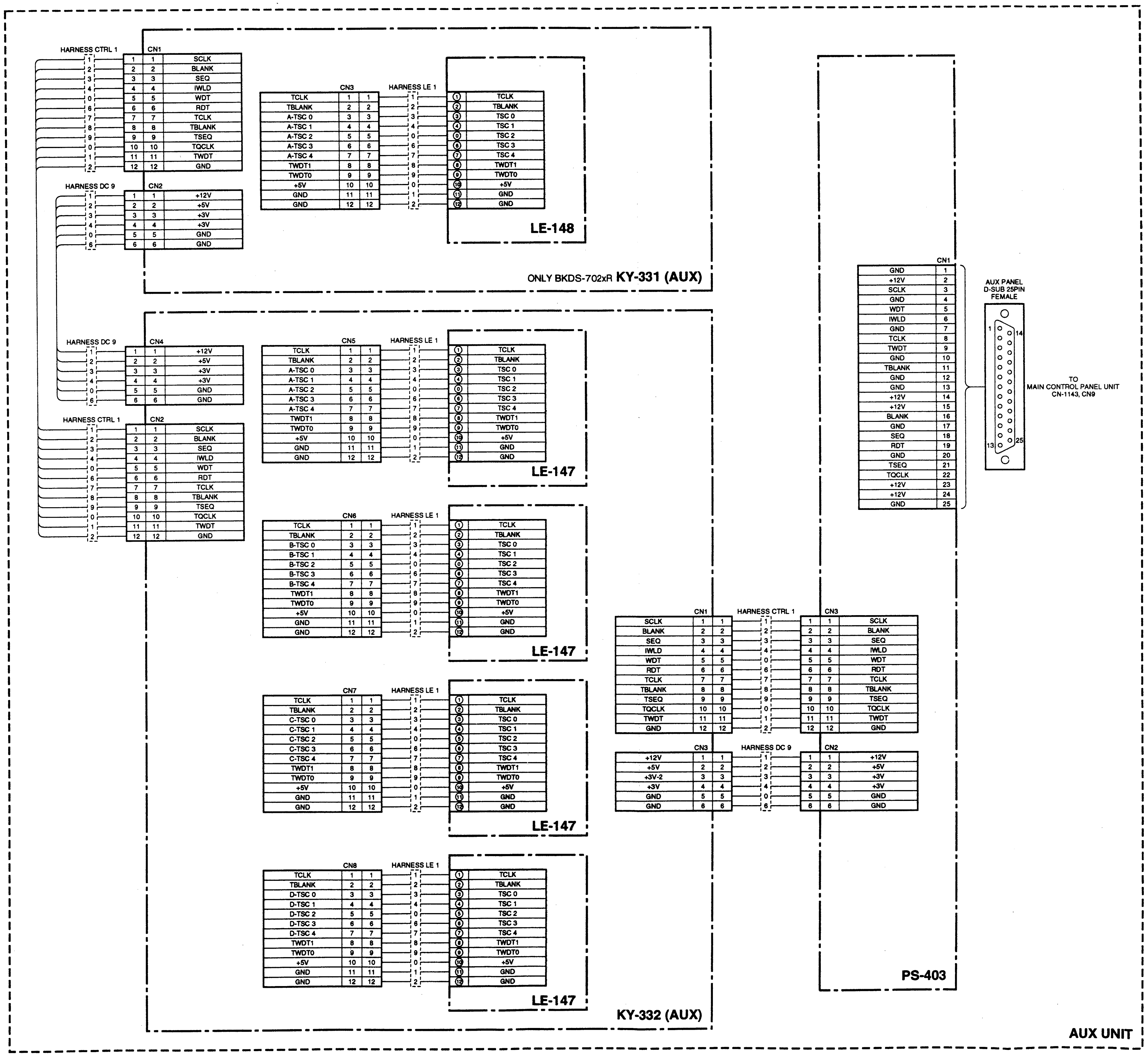
BKDS-702xR/702xLR FRAME (9/10)


TO
MAIN CONTROL PANEL UNIT
CN-1143 CN16
DISPLAY PANEL
D-SUB 25PIN
FEMALE
1
14
13
25
CN10
GND 1 1
+12V 2 2
SCLK 3 3
GND 4 4
WDT 5 5
IWLD 6 6
GND 7 7
ELCK 8 8
ELDATA 0 9 9
GND 10 10
ELVD 11 11
GND 12 12
GND 13 13
+12V 14 14
+12V 15 15
BLANK 16 16
GND 17 17
SEQ 18 18
RDT 19 19
GND 20 20
ELHD 21 21
ELDATA 1 22 22
+12V 23 23
+12V 24 24
GND 25 25
HARNESS ELD 1
CN1
1 1 SCLK
2 2 BLANK
3 3 SEQ
4 4 IWLD
5 5 WDT
6 6 RDT
7 7 GND
8 8 GND
9 9 GND
10 10 NC
CN2
1 1 EL CLK
2 2 EL DATA0
3 3 EL DATA1
4 4 EL HD
5 5 EL VD
6 6 GND
7 7 GND
8 8 NC
CN3
1 1 +12V
2 2 +12V
3 3 +12V
4 4 GND
5 5 GND
6 6 GND
7 7 GND
CN4
+12V 1 1
+12V 2 2
+5V 3 3
+5V 4 4
NC 5 5
NC 6 6
GND 7 7
GND 8 8
VD 9 9
NC 10 10
HD 11 11
GND 12 12
CK 13 13
GND 14 14
DATA 0 15 15
DATA 1 16 16
HARNESS EL 1
FLAT CABLE 16P
CN5
1 1 +12V
2 2 +12V
3 3 +5V
4 4 +5V
5 5 NC
6 6 NC
7 7 GND
8 8 GND
9 9 VD
10 10 NC
11 11 HD
12 12 GND
13 13 CKD
14 14 GND
15 15 DIN 0
16 16 DIN 1
EL DISPLAY UNIT
CN9
+5V 1 1
RV1-B 2 2
RV1-A 3 3
GND 4 4
RV1
CN10
+5V 1 1
RV2-B 2 2
RV2-A 3 3
GND 4 4
RV2
CN11
+5V 1 1
RV3-B 2 2
RV3-A 3 3
GND 4 4
RV3
CN12
+5V 1 1
RV4-B 2 2
RV4-A 3 3
GND 4 4
RV4
KY-323
DISPLAY PANEL

FRAME WIRING (9/10)

BKDS-702xR/702xLR

BKDS-702xR/702xLR FRAME (10/10)

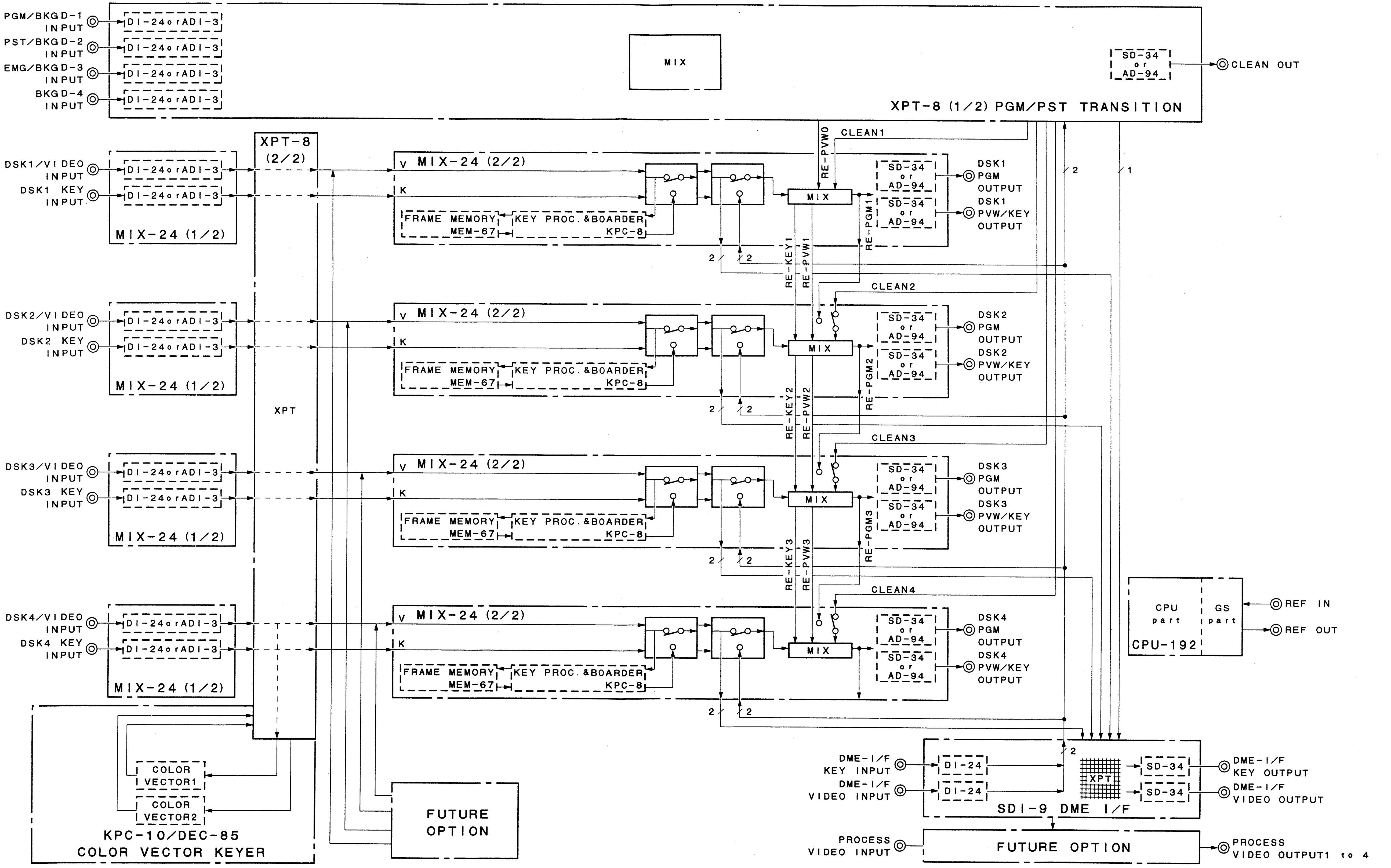

HARNESS CTRL 1
CN1
SCLK
BLANK
SEQ
IWLD
WDT
RDT
TCLK
TBLANK
TSEQ
TQCLK
TWDT
GND
HARNESS DC 9
CN2
+12V
+5V
+3V
+3V
GND
GND
CN3
HARNESS LE 1
TCLK
TBLANK
A-TSC 0
A-TSC 1
A-TSC 2
A-TSC 3
A-TSC 4
TWDT1
TWDT0
+5V
GND
GND
TSC 0
TSC 1
TSC 2
TSC 3
TSC 4
LE-148
ONLY BKDS-702xR KY-331 (AUX)
CN4
CN5
CN6
B-TSC 0
B-TSC 1
B-TSC 2
B-TSC 3
B-TSC 4
CN7
C-TSC 0
C-TSC 1
C-TSC 2
C-TSC 3
C-TSC 4
CN8
D-TSC 0
D-TSC 1
D-TSC 2
D-TSC 3
D-TSC 4
LE-147
LE-147
LE-147
LE-147
KY-332 (AUX)
+3V-2
PS-403
AUX PANEL
D-SUB 25PIN
FEMALE
TO
MAIN CONTROL PANEL UNIT
CN-1143, CN9
AUX UNIT

FRAME WIRING (10/10)

BKDS-702xR/702xLR

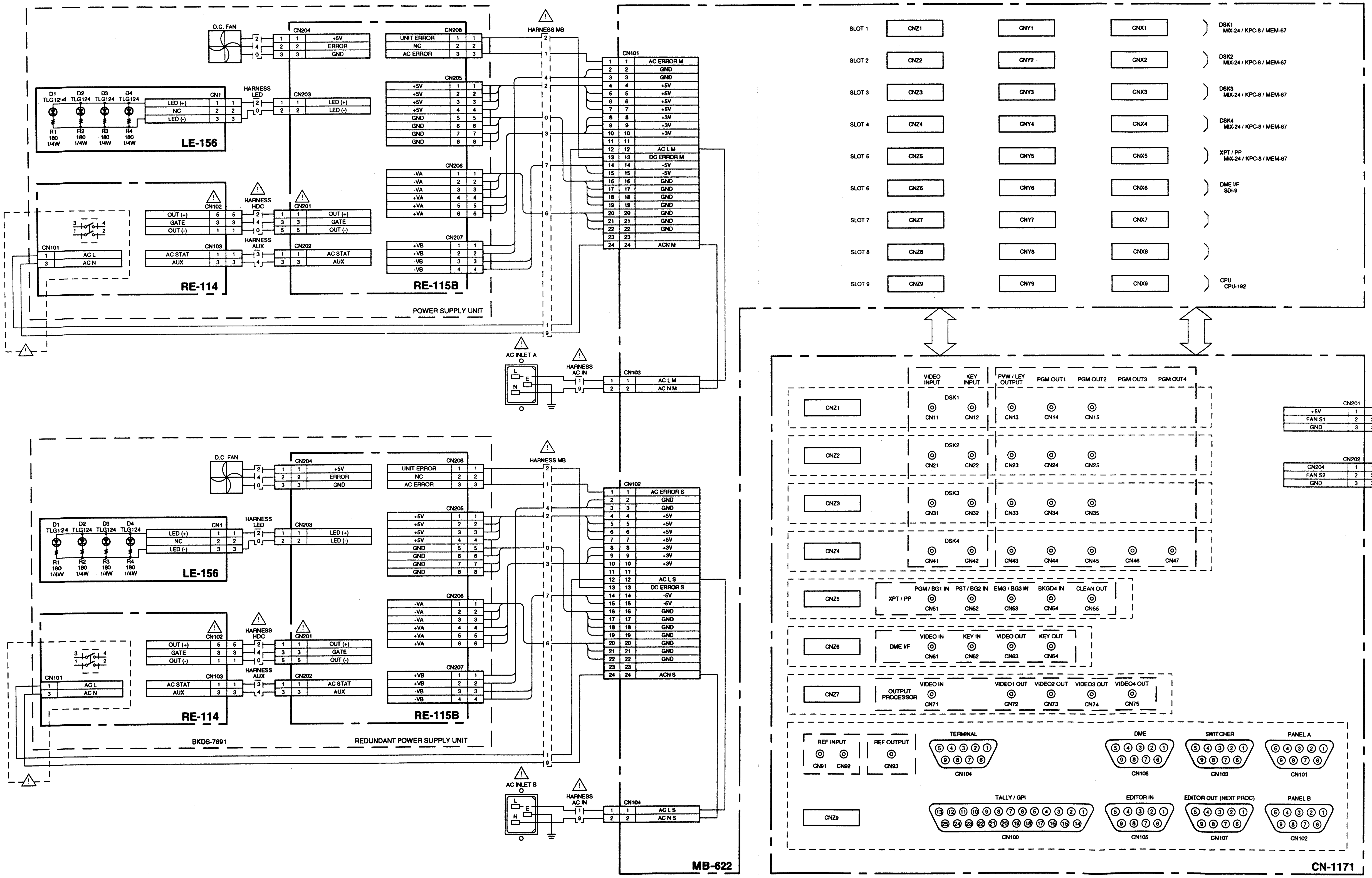
2-61

2-8. DMK-7000
DMK-7000 OVERALL BLOCK


PGM/BKGD-1 INPUT
PST/BKGD-2 INPUT
EMG/BKGD-3 INPUT
BKGD-4 INPUT
DI-24 or ADI-3
MIX
SD-34 or AD-94
CLEAN OUT
XPT-8 (1/2) PGM/PST TRANSITION
XPT-8 (2/2)
CLEAN1
CLEAN2
CLEAN3
CLEAN4
RE-PVW0
RE-PGM1
RE-KEY1
RE-PVW1
RE-PGM2
RE-KEY2
RE-PVW2
RE-PGM3
RE-KEY3
RE-PVW3
DSK1/VIDEO INPUT
DSK1 KEY INPUT
DSK2/VIDEO INPUT
DSK2 KEY INPUT
DSK3/VIDEO INPUT
DSK3 KEY INPUT
DSK4/VIDEO INPUT
DSK4 KEY INPUT
MIX-24 (1/2)
V MIX-24 (2/2)
K
FRAME MEMORY MEM-67
KEY PROC.&BOARDER KPC-8
DSK1 PGM OUTPUT
DSK1 PVW/KEY OUTPUT
DSK2 PGM OUTPUT
DSK2 PVW/KEY OUTPUT
DSK3 PGM OUTPUT
DSK3 PVW/KEY OUTPUT
DSK4 PGM OUTPUT
DSK4 PVW/KEY OUTPUT
XPT
2
1
CPU part
GS part
CPU-192
REF IN
REF OUT
COLOR VECTOR1
COLOR VECTOR2
KPC-10/DEC-85
COLOR VECTOR KEYER
FUTURE OPTION
DME-I/F KEY INPUT
DME-I/F VIDEO INPUT
DI-24
SD-34
SDI-9 DME I/F
DME-I/F KEY OUTPUT
DME-I/F VIDEO OUTPUT
PROCESS VIDEO INPUT
FUTURE OPTION
PROCESS VIDEO OUTPUT1 to 4

OVERALL BLOCK
DMK-7000
BKDS-7180/7300/7320/7430/7443

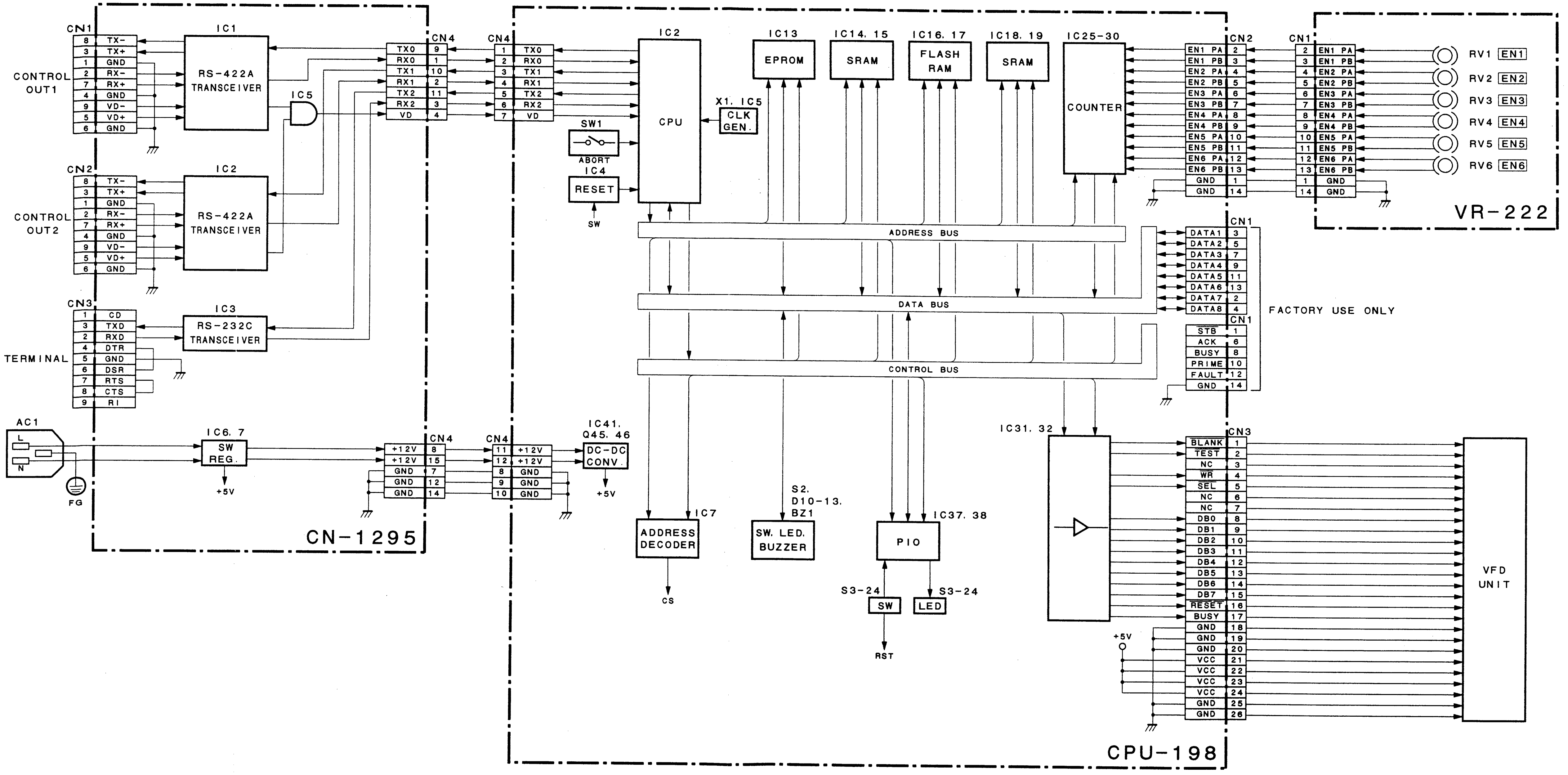
DMK-7000 FRAME WIRING


D.C. FAN
CN204
CN208
UNIT ERROR
NC
AC ERROR
+5V
ERROR
GND
HARNESS LED
CN203
CN1
LED (+)
LED (-)
D1 D2 D3 D4
TLG124
R1 R2 R3 R4
180 1/4W
LE-156
CN205
CN206
-VA
+VA
CN207
+VB
-VB
HARNESS HDC
CN102
CN201
OUT (+)
GATE
OUT (-)
HARNESS AUX
CN103
CN202
AC STAT
AUX
CN101
AC L
AC N
RE-114
RE-115B
POWER SUPPLY UNIT
HARNESS MB
CN101
AC ERROR M
ACN M
AC L M
DC ERROR M
+3V
AC INLET A
HARNESS AC IN
CN103
AC N M
BKDS-7691
REDUNDANT POWER SUPPLY UNIT
CN102
AC ERROR S
AC L S
DC ERROR S
ACN S
AC INLET B
CN104
AC N S
MB-622
SLOT 1
SLOT 2
SLOT 3
SLOT 4
SLOT 5
SLOT 6
SLOT 7
SLOT 8
SLOT 9
CNZ1 CNZ2 CNZ3 CNZ4 CNZ5 CNZ6 CNZ7 CNZ8 CNZ9
CNY1 CNY2 CNY3 CNY4 CNY5 CNY6 CNY7 CNY8 CNY9
CNX1 CNX2 CNX3 CNX4 CNX5 CNX6 CNX7 CNX8 CNX9
DSK1 MIX-24 / KPC-8 / MEM-67
DSK2 MIX-24 / KPC-8 / MEM-67
DSK3 MIX-24 / KPC-8 / MEM-67
DSK4 MIX-24 / KPC-8 / MEM-67
XPT / PP MIX-24 / KPC-8 / MEM-67
DME I/F SDI-9
CPU CPU-192
VIDEO INPUT
KEY INPUT
PVW / LEY OUTPUT
PGM OUT1 PGM OUT2 PGM OUT3 PGM OUT4
CN11 CN12 CN13 CN14 CN15
CN21 CN22 CN23 CN24 CN25
CN31 CN32 CN33 CN34 CN35
CN41 CN42 CN43 CN44 CN45 CN46 CN47
XPT / PP
PGM / BG1 IN PST / BG2 IN EMG / BG3 IN BKGD4 IN CLEAN OUT
CN51 CN52 CN53 CN54 CN55
DME I/F
VIDEO IN KEY IN VIDEO OUT KEY OUT
CN61 CN62 CN63 CN64
OUTPUT PROCESSOR
VIDEO IN VIDEO1 OUT VIDEO2 OUT VIDEO3 OUT VIDEO4 OUT
CN71 CN72 CN73 CN74 CN75
REF INPUT
REF OUTPUT
CN91 CN92 CN93
TERMINAL CN104
DME CN106
SWITCHER CN103
PANEL A CN101
TALLY / GPI CN100
EDITOR IN CN105
EDITOR OUT (NEXT PROC) CN107
PANEL B CN102
CN201
+5V
FAN S1
CN202
CN204
FAN S2
CN-1171

FRAME WIRING
DMK-7000
BKDS-7691

2-9. BKDS-7060

BKDS-7060 OVERALL BLOCK/FRAME WIRING


CN-1295
CN1
8 TX-
3 TX+
1 GND
2 RX-
7 RX+
4 GND
9 VD-
5 VD+
6 GND
CONTROL OUT1
IC1
RS-422A TRANSCEIVER
IC5
CN2
CONTROL OUT2
IC2
RS-422A TRANSCEIVER
CN3
1 CD
3 TXD
2 RXD
4 DTR
5 GND
6 DSR
7 RTS
8 CTS
9 RI
TERMINAL
IC3
RS-232C TRANSCEIVER
CN4
TX0 9
RX0 1
TX1 10
RX1 2
TX2 11
RX2 3
VD 4
AC1
L
N
FG
IC6. 7
SW REG.
+5V
+12V 8
+12V 15
GND 7
GND 12
GND 14
CPU-198
CN4
1 TX0
2 RX0
3 TX1
4 RX1
5 TX2
6 RX2
7 VD
11 +12V
12 +12V
8 GND
9 GND
10 GND
IC41. Q45. 46
DC-DC CONV.
+5V
SW1
ABORT
IC4
RESET
SW
IC2
CPU
X1. IC5
CLK GEN.
IC13
EPROM
IC14. 15
SRAM
IC16. 17
FLASH RAM
IC18. 19
SRAM
IC25-30
COUNTER
ADDRESS BUS
DATA BUS
CONTROL BUS
IC7
ADDRESS DECODER
CS
S2. D10-13. BZ1
SW. LED. BUZZER
IC37. 38
PIO
S3-24
SW
RST
S3-24
LED
IC31. 32
CN2
EN1 PA 2
EN1 PB 3
EN2 PA 4
EN2 PB 5
EN3 PA 6
EN3 PB 7
EN4 PA 8
EN4 PB 9
EN5 PA 10
EN5 PB 11
EN6 PA 12
EN6 PB 13
GND 1
GND 14
CN1
DATA1 3
DATA2 5
DATA3 7
DATA4 9
DATA5 11
DATA6 13
DATA7 2
DATA8 4
CN1
STB 1
ACK 6
BUSY 8
PRIME 10
FAULT 12
GND 14
FACTORY USE ONLY
CN3
BLANK 1
TEST 2
NC 3
WR 4
SEL 5
NC 6
NC 7
DB0 8
DB1 9
DB2 10
DB3 11
DB4 12
DB5 13
DB6 14
DB7 15
RESET 16
BUSY 17
GND 18
GND 19
GND 20
VCC 21
VCC 22
VCC 23
VCC 24
GND 25
GND 26
+5V
VFD UNIT
VR-222
CN1
2 EN1 PA
3 EN1 PB
4 EN2 PA
5 EN2 PB
6 EN3 PA
7 EN3 PB
8 EN4 PA
9 EN4 PB
10 EN5 PA
11 EN5 PB
12 EN6 PA
13 EN6 PB
1 GND
14 GND
RV1 EN1
RV2 EN2
RV3 EN3
RV4 EN4
RV5 EN5
RV6 EN6

Section 3
Schematic Diagrams

DVS-M1000C Digital Master Switcher

No.	Board name	Circuit function	Model name	Volume	Page
1	APR-8	Audio Process Board	BKDS-M1810/M1820	Volume 5	3-28
2	APR-9	Audio Process Board	BKDS-M1820	Volume 5	3-44
3	AVD-3	A/V Demultiplex/Multiplex Board	BKDS-M1810	Volume 5	3-50
4	AVD-4	A/V Demultiplex/Multiplex Board	BKDS-M1820	Volume 5	3-58
5	BD-26	Key Border Board	BKDS-7270	Volume 5	3-64
6	CN-1140	Connector Board	DVS-M1000C	Volume 5	3-72
7	CPU-156	System Control Board	DVS-M1000C	Volume 5	3-90
8	DI-22	12 Input Serial Digital Board	BKDS-7102	Volume 5	3-190
9	FM-41	Frame Memory Board	BKDS-M1441	Volume 5	3-220
10	KPC-7	Keyer Expansion Board	BKDS-M1310	Volume 6	3-5
11	LE-156	LED Board	DVS-M1000C/BKDS-M1690	Volume 6	3-129
12	MB-616	Mother Board	DVS-M1000C	Volume 6	3-130
13	MEM-71	Frame Memory Expansion Board	BKDS-M1442	Volume 6	3-166
14	MIX-21	Video Mixer Board	DVS-M1000C	Volume 6	3-170
15	OUT-8	Output Processor Board	DVS-M1000C	Volume 6	3-240
16	RE-114	Power Supply AC-DC Board	DVS-M1000C/BKDS-M1690	Volume 6	3-271
17	RE-115A	Power Supply DC-DC Board	DVS-M1000C/BKDS-M1690	Volume 6	3-272
18	XPT-5	Cross Point Board	DVS-M1000C	Volume 6	3-294

BKDS-M1010 Master Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1197	Connector Board	BKDS-M1010	Volume 5	3-88
2	CPU-199	System Control Board	BKDS-M1010	Volume 5	3-142
3	IF-533	Audio Fader Interface Board	BKDS-M1040	Volume 5	3-228
4	KY-334	Switch Board	BKDS-M1010	Volume 6	3-104
5	KY-335	Switch Board	BKDS-M1010	Volume 6	3-117
6	LE-152	LED Board	BKDS-M1010	Volume 6	3-129
7	LE-153	LED Board	BKDS-M1010	Volume 6	3-129
8	RE-121	Power Supply Board	BKDS-M1010/M1090	Volume 6	3-275
9	VR-203	Rotary Encoder Board	BKDS-M1010	Volume 6	3-290

DMK-7000 Digital Multi Keyer

No.	Board name	Circuit function	Model name	Volume	Page
1	ADI-3	Analog Composite Input Board	BKDS-7111	Volume 5	3-26
2	CN-1171	Connector Board	DMK-7000	Volume 5	3-84
3	CPU-192	System Control Board	DMK-7000	Volume 5	3-118
4	DA-94	Analog Composite Output Board	BKDS-7161	Volume 5	3-186
5	DEC-85	Color Vector Keyer Board	BKDS-7430	Volume 5	3-188
6	DI-24	Serial Digital Input Board	BKDS-7112	Volume 5	3-203
7	KPC-8	Luminance Keyer/Border Board	BKDS-7320	Volume 6	3-6
8	KPC-10	Luminance Keyer/Border Board	BKDS-7430	Volume 6	3-14
9	LE-156	LED Board	DMK-7000/BKDS-7691	Volume 6	3-129
10	MB-622	Mother Board	DMK-7000	Volume 6	3-156
11	MIX-24	Linear Keyer Board	BKDS-7300	Volume 6	3-194
12	RE-114	Power Supply AC-DC Board	DMK-7000/BKDS-7691	Volume 6	3-271
13	RE-115B	Power Supply DC-DC Board	DMK-7000/BKDS-7691	Volume 6	3-273
14	SD-34	Serial Digital Output Board	BKDS-7162	Volume 6	3-276
15	SDI-9	DME Interface Board	BKDS-7180	Volume 6	3-278
16	XPT-8	Cross Point Board	DMK-7000	Volume 6	3-298

BKDS-7060 Keyer Remote Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1295	Connector Board	BKDS-7060	Volume 5	3-89
2	CPU-198	System Control Board	BKDS-7060	Volume 5	3-136
3	VR-222	Rotary Encoder Board	BKDS-7060	Volume 6	3-291

DVS-7000 Digital Video Switcher

No.	Board name	Circuit function	Model name	Volume	Page
1	ADC-21	Blank Input Adaptor Board	BKDS-7110	Volume 5	3-4
2	ADC-22	Chromakey Analog Component Input Board	BKDS-7133	Volume 5	3-17
3	ADI-3	Analog Composite Input Board	BKDS-7111	Volume 5	3-26
4	BD-26	Key Border Board	BKDS-7270	Volume 5	3-64
5	CN-1145	Connector Board	DVS-7000	Volume 5	3-77
6	CN-1146	Connector Board	DVS-7000	Volume 5	3-80
7	CPU-192	System Control Board	DVS-7000	Volume 5	3-118
8	CRK-10	Chromakey Board	BKDS-2031	Volume 5	3-145
9	CRK-11	Chromakey Upgrade Board	BKDS-2032	Volume 5	3-162
10	DA-94	Analog Composite Output Board	BKDS-7161	Volume 5	3-186
11	DI-22	12 Input Serial Digital Board	BKDS-7102	Volume 5	3-190
12	DI-24	Serial Digital Input Board	BKDS-7112	Volume 5	3-203
13	ENC-34	Encoder Board	BKDS-7133	Volume 5	3-204
14	LE-55	LED Board	DVS-7000/BKDS-7690	Volume 6	3-125
15	MB-618	Mother Board	DVS-7000	Volume 6	3-140
16	MIX-35	Video Mixer Board	DVS-7000	Volume 6	3-204
17	MY-66	Frame Memory Board	BKDS-2041	Volume 6	3-224
18	OUT-9	Output Processor Board	DVS-7000	Volume 6	3-252
19	RAM-18	CPU Expansion Board	DVS-7000	Volume 6	3-264
20	RE-109	Power Supply AC-DC Board	DVS-7000/BKDS-7690	Volume 6	3-268
21	RE-110	Power Supply DC-DC Board	DVS-7000/BKDS-7690	Volume 6	3-269
22	SD-34	Serial Digital Output Board	BKDS-7162	Volume 6	3-276
23	UP-10	ME PVW Board	BKDS-7280	Volume 6	3-288
24	WKG-12	Enhanced Wipe Generator Board	BKDS-2070	Volume 6	3-292
25	XPT-10	Cross Point Board	DVS-7000	Volume 6	3-310
26	YC-59	Frame Memory Adaptor Board	BKDS-7445	Volume 6	3-322

BKDS-7011 Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7011	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7011	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7011	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	KY-318A	Switch Board	BKDS-7011	Volume 6	3-20
6	KY-319A	Switch Board	BKDS-7011	Volume 6	3-32
7	KY-320	Switch Board	BKDS-7011	Volume 6	3-50
8	KY-321	Switch Board	BKDS-7011	Volume 6	3-58
9	KY-323	Switch Board	BKDS-7011	Volume 6	3-72
11	KY-324	Switch Board	BKDS-7011	Volume 6	3-78
12	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
13	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
14	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
15	KY-331	Switch Board	BKDS-7011	Volume 6	3-96
16	KY-332	Switch Board	BKDS-7011	Volume 6	3-100
17	LE-142	LED Board	BKDS-7011	Volume 6	3-125
18	LE-143	LED Board	BKDS-7011	Volume 6	3-125
18	LE-144	LED Board	BKDS-7011	Volume 6	3-125
20	LE-145	LED Board	BKDS-7011	Volume 6	3-126
21	LE-146	LED Board	BKDS-7011	Volume 6	3-126
22	LE-147	LED Board	BKDS-7011	Volume 6	3-127
23	LE-148	LED Board	BKDS-7011	Volume 6	3-127
24	LE-150	LED Board	BKDS-7011	Volume 6	3-128
25	RE-112	Power Supply Board	BKDS-7011	Volume 6	3-270

BKDS-7011R Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7011R	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7011R	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7011R	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7011R	Volume 5	3-231
6	KY-318A	Switch Board	BKDS-7011R	Volume 6	3-20
7	KY-319A	Switch Board	BKDS-7011R	Volume 6	3-32
8	KY-320	Switch Board	BKDS-7011R	Volume 6	3-50
9	KY-321	Switch Board	BKDS-7011R	Volume 6	3-58
10	KY-323	Switch Board	BKDS-7011R	Volume 6	3-72
11	KY-324	Switch Board	BKDS-7011R	Volume 6	3-78
12	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
13	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
14	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
15	KY-331	Switch Board	BKDS-7011R	Volume 6	3-96
16	KY-332	Switch Board	BKDS-7011R	Volume 6	3-100
17	LE-142	LED Board	BKDS-7011R	Volume 6	3-125
18	LE-143	LED Board	BKDS-7011R	Volume 6	3-125
19	LE-144	LED Board	BKDS-7011R	Volume 6	3-125
20	LE-145	LED Board	BKDS-7011R	Volume 6	3-126
21	LE-146	LED Board	BKDS-7011R	Volume 6	3-126
22	LE-147	LED Board	BKDS-7011R	Volume 6	3-127
23	LE-148	LED Board	BKDS-7011R	Volume 6	3-127
24	LE-150	LED Board	BKDS-7011R	Volume 6	3-128
25	RE-112	Power Supply Board	BKDS-7011R	Volume 6	3-270

BKDS-7011LR Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7011LR	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7011LR	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7011LR	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7011LR	Volume 5	3-231
6	KY-319A	Switch Board	BKDS-7011LR	Volume 6	3-32
7	KY-320	Switch Board	BKDS-7011LR	Volume 6	3-50
8	KY-321	Switch Board	BKDS-7011LR	Volume 6	3-58
9	KY-323	Switch Board	BKDS-7011LR	Volume 6	3-72
10	KY-324	Switch Board	BKDS-7011LR	Volume 6	3-78
11	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
12	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
13	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
14	KY-332	Switch Board	BKDS-7011LR	Volume 6	3-100
15	LE-142	LED Board	BKDS-7011LR	Volume 6	3-125
16	LE-143	LED Board	BKDS-7011LR	Volume 6	3-125
17	LE-144	LED Board	BKDS-7011LR	Volume 6	3-125
18	LE-145	LED Board	BKDS-7011LR	Volume 6	3-126
19	LE-146	LED Board	BKDS-7011LR	Volume 6	3-126
20	LE-147	LED Board	BKDS-7011LR	Volume 6	3-127
21	LE-150	LED Board	BKDS-7011LR	Volume 6	3-128
22	RE-112	Power Supply Board	BKDS-7011LR	Volume 6	3-270

BKDS-7012 Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7012	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7012	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7012	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	KY-318B	Switch Board	BKDS-7012	Volume 6	3-24
6	KY-319B	Switch Board	BKDS-7012	Volume 6	3-38
7	KY-320	Switch Board	BKDS-7012	Volume 6	3-50
8	KY-323	Switch Board	BKDS-7012	Volume 6	3-72
9	KY-324	Switch Board	BKDS-7012	Volume 6	3-78
10	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
11	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
12	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
13	KY-331	Switch Board	BKDS-7012	Volume 6	3-96
14	KY-332	Switch Board	BKDS-7012	Volume 6	3-100
15	KY-367	Switch Board	BKDS-7012	Volume 6	3-118
16	LE-142	LED Board	BKDS-7012	Volume 6	3-125
17	LE-143	LED Board	BKDS-7012	Volume 6	3-125
18	LE-144	LED Board	BKDS-7012	Volume 6	3-125
19	LE-145	LED Board	BKDS-7012	Volume 6	3-126
20	LE-146	LED Board	BKDS-7012	Volume 6	3-126
21	LE-147	LED Board	BKDS-7012	Volume 6	3-127
22	LE-148	LED Board	BKDS-7012	Volume 6	3-127
23	LE-150	LED Board	BKDS-7012	Volume 6	3-128
24	RE-112	Power Supply Board	BKDS-7012	Volume 6	3-270

BKDS-7012R Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7012R	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7012R	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7012R	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7012R	Volume 5	3-231
6	KY-318B	Switch Board	BKDS-7012R	Volume 6	3-24
7	KY-319B	Switch Board	BKDS-7012R	Volume 6	3-38
8	KY-320	Switch Board	BKDS-7012R	Volume 6	3-50
9	KY-323	Switch Board	BKDS-7012R	Volume 6	3-72
10	KY-324	Switch Board	BKDS-7012R	Volume 6	3-78
11	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
12	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
13	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
14	KY-331	Switch Board	BKDS-7012R	Volume 6	3-96
15	KY-332	Switch Board	BKDS-7012R	Volume 6	3-100
16	KY-367	Switch Board	BKDS-7012R	Volume 6	3-118
17	LE-142	LED Board	BKDS-7012R	Volume 6	3-125
18	LE-143	LED Board	BKDS-7012R	Volume 6	3-125
19	LE-144	LED Board	BKDS-7012R	Volume 6	3-125
20	LE-145	LED Board	BKDS-7012R	Volume 6	3-126
21	LE-146	LED Board	BKDS-7012R	Volume 6	3-126
22	LE-147	LED Board	BKDS-7012R	Volume 6	3-127
23	LE-148	LED Board	BKDS-7012R	Volume 6	3-127
24	LE-150	LED Board	BKDS-7012R	Volume 6	3-128
25	RE-112	Power Supply Board	BKDS-7012R	Volume 6	3-270

BKDS-7012LR Type-3D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7012LR	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7012LR	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7012LR	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7012LR	Volume 5	3-231
6	KY-319B	Switch Board	BKDS-7012LR	Volume 6	3-38
7	KY-320	Switch Board	BKDS-7012LR	Volume 6	3-50
8	KY-323	Switch Board	BKDS-7012LR	Volume 6	3-72
9	KY-324	Switch Board	BKDS-7012LR	Volume 6	3-78
10	KY-325	Switch Board	BKDS-7032	Volume 6	3-82
11	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
12	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
13	KY-332	Switch Board	BKDS-7012LR	Volume 6	3-100
14	KY-367	Switch Board	BKDS-7012LR	Volume 6	3-118
15	LE-142	LED Board	BKDS-7012LR	Volume 6	3-125
16	LE-143	LED Board	BKDS-7012LR	Volume 6	3-125
17	LE-144	LED Board	BKDS-7012LR	Volume 6	3-125
18	LE-145	LED Board	BKDS-7012LR	Volume 6	3-126
19	LE-146	LED Board	BKDS-7012LR	Volume 6	3-126
20	LE-147	LED Board	BKDS-7012LR	Volume 6	3-127
21	LE-150	LED Board	BKDS-7012LR	Volume 6	3-128
22	RE-112	Power Supply Board	BKDS-7012LR	Volume 6	3-270

BKDS-7021 Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7021	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7021	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7021	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	KY-318B	Switch Board	BKDS-7021	Volume 6	3-24
6	KY-318C	Switch Board	BKDS-7021	Volume 6	3-28
7	KY-319B	Switch Board	BKDS-7021	Volume 6	3-38
8	KY-319C	Switch Board	BKDS-7021	Volume 6	3-44
9	KY-320	Switch Board	BKDS-7021	Volume 6	3-50
10	KY-321	Switch Board	BKDS-7021	Volume 6	3-58
11	KY-322	Switch Board	BKDS-7021	Volume 6	3-66
12	KY-323	Switch Board	BKDS-7021	Volume 6	3-72
13	KY-324	Switch Board	BKDS-7021	Volume 6	3-78
14	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
15	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
16	KY-331	Switch Board	BKDS-7021	Volume 6	3-96
17	KY-332	Switch Board	BKDS-7021	Volume 6	3-100
18	LE-142	LED Board	BKDS-7021	Volume 6	3-125
19	LE-143	LED Board	BKDS-7021	Volume 6	3-125
20	LE-144	LED Board	BKDS-7021	Volume 6	3-125
21	LE-145	LED Board	BKDS-7021	Volume 6	3-126
22	LE-146	LED Board	BKDS-7021	Volume 6	3-126
23	LE-147	LED Board	BKDS-7021	Volume 6	3-127
24	LE-148	LED Board	BKDS-7021	Volume 6	3-127
25	LE-150	LED Board	BKDS-7021	Volume 6	3-128
26	PS-403	DC-DC Converter Board	BKDS-7021	Volume 6	3-263
27	RE-112	Power Supply Board	BKDS-7021	Volume 6	3-270

BKDS-7021R Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7021R	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7021R	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7021R	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7021R	Volume 5	3-231
6	KY-318B	Switch Board	BKDS-7021R	Volume 6	3-24
7	KY-318C	Switch Board	BKDS-7021R	Volume 6	3-28
8	KY-319B	Switch Board	BKDS-7021R	Volume 6	3-38
9	KY-319C	Switch Board	BKDS-7021R	Volume 6	3-44
10	KY-320	Switch Board	BKDS-7021R	Volume 6	3-50
11	KY-321	Switch Board	BKDS-7021R	Volume 6	3-58
12	KY-322	Switch Board	BKDS-7021R	Volume 6	3-66
13	KY-323	Switch Board	BKDS-7021R	Volume 6	3-72
14	KY-324	Switch Board	BKDS-7021R	Volume 6	3-78
15	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
16	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
17	KY-331	Switch Board	BKDS-7021R	Volume 6	3-96
18	KY-332	Switch Board	BKDS-7021R	Volume 6	3-100
19	LE-142	LED Board	BKDS-7021R	Volume 6	3-125
20	LE-143	LED Board	BKDS-7021R	Volume 6	3-125
21	LE-144	LED Board	BKDS-7021R	Volume 6	3-125
22	LE-145	LED Board	BKDS-7021R	Volume 6	3-126
23	LE-146	LED Board	BKDS-7021R	Volume 6	3-126
24	LE-147	LED Board	BKDS-7021R	Volume 6	3-127
25	LE-148	LED Board	BKDS-7021R	Volume 6	3-127
26	LE-150	LED Board	BKDS-7021R	Volume 6	3-128
27	PS-403	DC-DC Converter Board	BKDS-7021R	Volume 6	3-263
28	RE-112	Power Supply Board	BKDS-7021R	Volume 6	3-270

BKDS-7021LR Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Page	
1	CN-1143	Connector Board	BKDS-7021LR	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7021LR	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7021LR	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7021LR	Volume 5	3-231
6	KY-319B	Switch Board	BKDS-7021LR	Volume 6	3-38
7	KY-319C	Switch Board	BKDS-7021LR	Volume 6	3-44
8	KY-320	Switch Board	BKDS-7021LR	Volume 6	3-50
9	KY-321	Switch Board	BKDS-7021LR	Volume 6	3-58
10	KY-322	Switch Board	BKDS-7021LR	Volume 6	3-66
11	KY-323	Switch Board	BKDS-7021LR	Volume 6	3-72
12	KY-324	Switch Board	BKDS-7021LR	Volume 6	3-78
13	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
14	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
15	KY-332	Switch Board	BKDS-7021LR	Volume 6	3-100
16	LE-142	LED Board	BKDS-7021LR	Volume 6	3-125
17	LE-143	LED Board	BKDS-7021LR	Volume 6	3-125
18	LE-144	LED Board	BKDS-7021LR	Volume 6	3-125
19	LE-145	LED Board	BKDS-7021LR	Volume 6	3-126
20	LE-146	LED Board	BKDS-7021LR	Volume 6	3-126
21	LE-147	LED Board	BKDS-7021LR	Volume 6	3-127
22	LE-150	LED Board	BKDS-7021LR	Volume 6	3-128
23	PS-403	DC-DC Converter Board	BKDS-7021LR	Volume 6	3-263
24	RE-112	Power Supply Board	BKDS-7021LR	Volume 6	3-270

BKDS-7022 Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7022	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7022	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7022	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	KY-318B	Switch Board	BKDS-7022	Volume 6	3-24
6	KY-318C	Switch Board	BKDS-7022	Volume 6	3-28
7	KY-319B	Switch Board	BKDS-7022	Volume 6	3-28
8	KY-319C	Switch Board	BKDS-7022	Volume 6	3-44
9	KY-320	Switch Board	BKDS-7022	Volume 6	3-50
10	KY-322	Switch Board	BKDS-7022	Volume 6	3-66
11	KY-323	Switch Board	BKDS-7022	Volume 6	3-72
12	KY-324	Switch Board	BKDS-7022	Volume 6	3-78
13	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
14	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
15	KY-331	Switch Board	BKDS-7022	Volume 6	3-96
16	KY-332	Switch Board	BKDS-7022	Volume 6	3-100
17	KY-367	Switch Board	BKDS-7022	Volume 6	3-118
18	LE-142	LED Board	BKDS-7022	Volume 6	3-125
19	LE-143	LED Board	BKDS-7022	Volume 6	3-125
20	LE-144	LED Board	BKDS-7022	Volume 6	3-125
21	LE-145	LED Board	BKDS-7022	Volume 6	3-126
22	LE-146	LED Board	BKDS-7022	Volume 6	3-126
23	LE-147	LED Board	BKDS-7022	Volume 6	3-127
24	LE-148	LED Board	BKDS-7022	Volume 6	3-127
25	LE-150	LED Board	BKDS-7022	Volume 6	3-128
26	PS-403	DC-DC Converter Board	BKDS-7022	Volume 6	3-263
27	RE-112	Power Supply Board	BKDS-7022	Volume 6	3-270

BKDS-7022R Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7022R	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7022R	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7022R	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7022R	Volume 5	3-231
6	KY-318B	Switch Board	BKDS-7022R	Volume 6	3-24
7	KY-318C	Switch Board	BKDS-7022R	Volume 6	3-28
8	KY-319B	Switch Board	BKDS-7022R	Volume 6	3-38
9	KY-319C	Switch Board	BKDS-7022R	Volume 6	3-44
10	KY-320	Switch Board	BKDS-7022R	Volume 6	3-50
11	KY-322	Switch Board	BKDS-7022R	Volume 6	3-66
12	KY-323	Switch Board	BKDS-7022R	Volume 6	3-72
13	KY-324	Switch Board	BKDS-7022R	Volume 6	3-78
14	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
15	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
16	KY-331	Switch Board	BKDS-7022R	Volume 6	3-96
17	KY-332	Switch Board	BKDS-7022R	Volume 6	3-100
18	KY-367	Switch Board	BKDS-7022R	Volume 6	3-118
19	LE-142	LED Board	BKDS-7022R	Volume 6	3-125
20	LE-143	LED Board	BKDS-7022R	Volume 6	3-125
21	LE-144	LED Board	BKDS-7022R	Volume 6	3-125
22	LE-145	LED Board	BKDS-7022R	Volume 6	3-126
23	LE-146	LED Board	BKDS-7022R	Volume 6	3-126
24	LE-147	LED Board	BKDS-7022R	Volume 6	3-127
25	LE-148	LED Board	BKDS-7022R	Volume 6	3-127
26	LE-150	LED Board	BKDS-7022R	Volume 6	3-128
27	PS-403	DC-DC Converter Board	BKDS-7022R	Volume 6	3-263
28	RE-112	Power Supply Board	BKDS-7022R	Volume 6	3-270

BKDS-7022LR Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7022LR	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7022LR	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7022LR	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7022LR	Volume 5	3-231
6	KY-319B	Switch Board	BKDS-7022LR	Volume 6	3-38
7	KY-319C	Switch Board	BKDS-7022LR	Volume 6	3-44
8	KY-320	Switch Board	BKDS-7022LR	Volume 6	3-50
9	KY-322	Switch Board	BKDS-7022LR	Volume 6	3-66
10	KY-323	Switch Board	BKDS-7022LR	Volume 6	3-72
11	KY-324	Switch Board	BKDS-7022LR	Volume 6	3-78
12	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
13	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
14	KY-332	Switch Board	BKDS-7022LR	Volume 6	3-100
15	KY-367	Switch Board	BKDS-7022LR	Volume 6	3-118
16	LE-142	LED Board	BKDS-7022LR	Volume 6	3-125
17	LE-143	LED Board	BKDS-7022LR	Volume 6	3-125
18	LE-144	LED Board	BKDS-7022LR	Volume 6	3-125
19	LE-145	LED Board	BKDS-7022LR	Volume 6	3-126
20	LE-146	LED Board	BKDS-7022LR	Volume 6	3-126
21	LE-147	LED Board	BKDS-7022LR	Volume 6	3-127
22	LE-150	LED Board	BKDS-7022LR	Volume 6	3-128
23	PS-403	DC-DC Converter Board	BKDS-7022LR	Volume 6	3-263
24	RE-112	Power Supply Board	BKDS-7022LR	Volume 6	3-270

BKDS-7023 Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7023	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7023	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7023	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	KY-318A	Switch Board	BKDS-7023	Volume 6	3-20
6	KY-318C	Switch Board	BKDS-7023	Volume 6	3-28
7	KY-319A	Switch Board	BKDS-7023	Volume 6	3-32
8	KY-319C	Switch Board	BKDS-7023	Volume 6	3-44
9	KY-320	Switch Board	BKDS-7023	Volume 6	3-50
10	KY-321	Switch Board	BKDS-7023	Volume 6	3-58
11	KY-322	Switch Board	BKDS-7023	Volume 6	3-66
12	KY-323	Switch Board	BKDS-7023	Volume 6	3-72
13	KY-324	Switch Board	BKDS-7023	Volume 6	3-78
14	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
15	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
16	KY-331	Switch Board	BKDS-7023	Volume 6	3-96
17	KY-332	Switch Board	BKDS-7023	Volume 6	3-100
18	LE-142	LED Board	BKDS-7023	Volume 6	3-125
19	LE-143	LED Board	BKDS-7023	Volume 6	3-125
20	LE-144	LED Board	BKDS-7023	Volume 6	3-125
21	LE-145	LED Board	BKDS-7023	Volume 6	3-126
22	LE-146	LED Board	BKDS-7023	Volume 6	3-126
23	LE-147	LED Board	BKDS-7023	Volume 6	3-127
24	LE-148	LED Board	BKDS-7023	Volume 6	3-127
25	LE-150	LED Board	BKDS-7023	Volume 6	3-128
26	PS-403	DC-DC Converter Board	BKDS-7023	Volume 6	3-263
27	RE-112	Power Supply Board	BKDS-7023	Volume 6	3-270

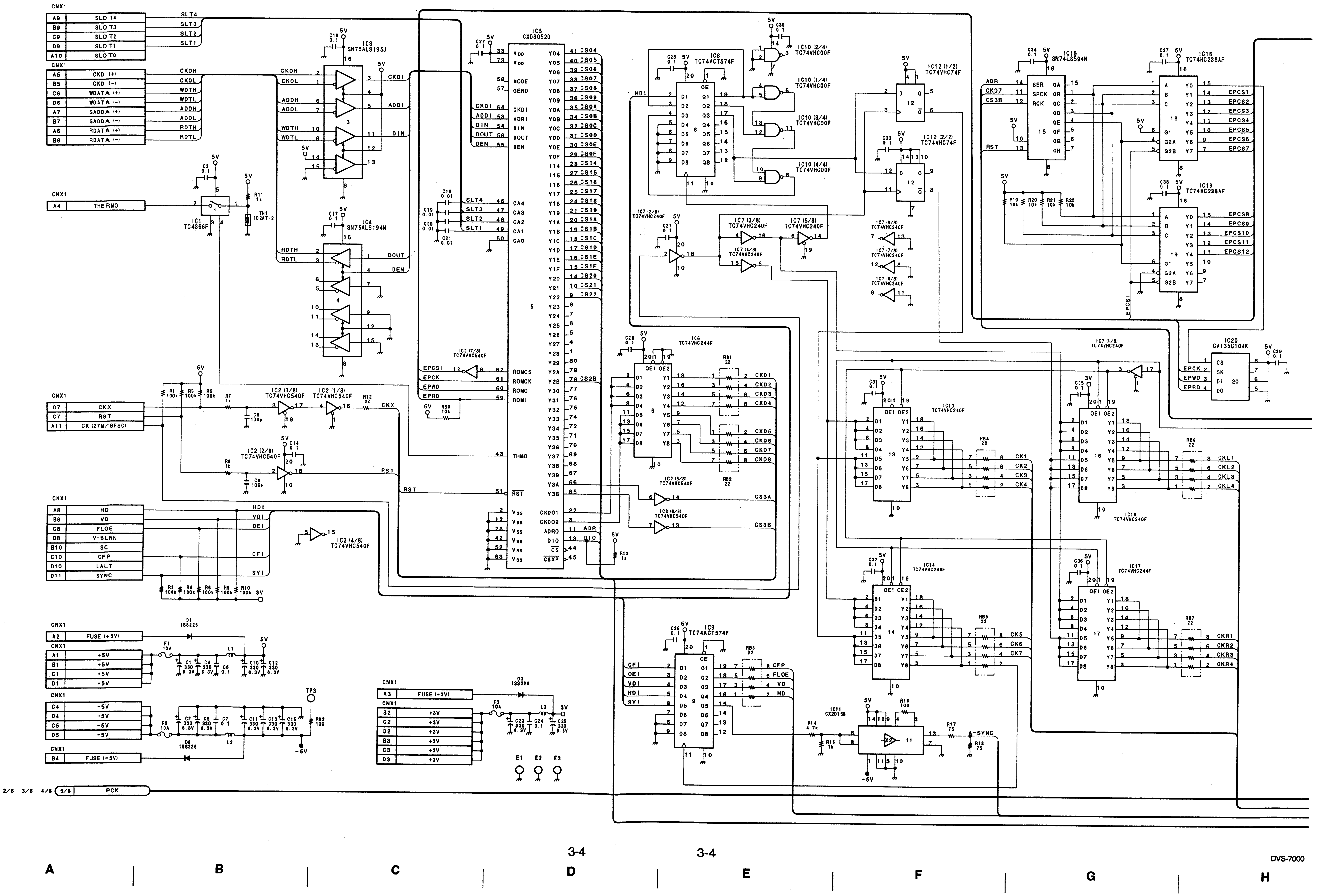
BKDS-7023R Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7023R	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7023R	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7023R	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7023R	Volume 5	3-231
6	KY-318A	Switch Board	BKDS-7023R	Volume 6	3-20
7	KY-318C	Switch Board	BKDS-7023R	Volume 6	3-28
8	KY-319A	Switch Board	BKDS-7023R	Volume 6	3-32
9	KY-319C	Switch Board	BKDS-7023R	Volume 6	3-44
10	KY-320	Switch Board	BKDS-7023R	Volume 6	3-50
11	KY-321	Switch Board	BKDS-7023R	Volume 6	3-58
12	KY-322	Switch Board	BKDS-7023R	Volume 6	3-66
13	KY-323	Switch Board	BKDS-7023R	Volume 6	3-72
14	KY-324	Switch Board	BKDS-7023R	Volume 6	3-78
15	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
16	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
17	KY-331	Switch Board	BKDS-7023R	Volume 6	3-96
18	KY-332	Switch Board	BKDS-7023R	Volume 6	3-100
19	LE-142	LED Board	BKDS-7023R	Volume 6	3-125
20	LE-143	LED Board	BKDS-7023R	Volume 6	3-125
21	LE-144	LED Board	BKDS-7023R	Volume 6	3-125
22	LE-145	LED Board	BKDS-7023R	Volume 6	3-126
23	LE-146	LED Board	BKDS-7023R	Volume 6	3-126
24	LE-147	LED Board	BKDS-7023R	Volume 6	3-127
25	LE-148	LED Board	BKDS-7023R	Volume 6	3-127
26	LE-150	LED Board	BKDS-7023R	Volume 6	3-128
27	PS-403	DC-DC Converter Board	BKDS-7023R	Volume 6	3-263
28	RE-112	Power Supply Board	BKDS-7023R	Volume 6	3-270

BKDS-7023LR Type-4D Switcher Control Panel

No.	Board name	Circuit function	Model name	Volume	Page
1	CN-1143	Connector Board	BKDS-7023LR	Volume 5	3-74
2	CN-1148	Connector Board	BKDS-7023LR	Volume 5	3-82
3	CPU-191	System Control Board	BKDS-7023LR	Volume 5	3-104
4	IF-523	Control Port Expansion Board	BKDS-7001	Volume 5	3-227
5	IF-629	Interface Board	BKDS-7023LR	Volume 5	3-231
6	KY-319A	Switch Board	BKDS-7023LR	Volume 6	3-32
7	KY-319C	Switch Board	BKDS-7023LR	Volume 6	3-44
8	KY-320	Switch Board	BKDS-7023LR	Volume 6	3-50
9	KY-321	Switch Board	BKDS-7023LR	Volume 6	3-58
10	KY-322	Switch Board	BKDS-7023LR	Volume 6	3-66
11	KY-323	Switch Board	BKDS-7023LR	Volume 6	3-72
12	KY-324	Switch Board	BKDS-7023LR	Volume 6	3-78
13	KY-328	Switch Board	BKDS-7030	Volume 6	3-86
14	KY-329	Switch Board	BKDS-7031	Volume 6	3-92
15	KY-332	Switch Board	BKDS-7023LR	Volume 6	3-100
16	LE-142	LED Board	BKDS-7023LR	Volume 6	3-125
17	LE-143	LED Board	BKDS-7023LR	Volume 6	3-125
18	LE-144	LED Board	BKDS-7023LR	Volume 6	3-125
19	LE-145	LED Board	BKDS-7023LR	Volume 6	3-126
20	LE-146	LED Board	BKDS-7023LR	Volume 6	3-126
21	LE-147	LED Board	BKDS-7023LR	Volume 6	3-127
22	LE-150	LED Board	BKDS-7023LR	Volume 6	3-128
23	PS-403	DC-DC Converter Board	BKDS-7023LR	Volume 6	3-263
24	RE-112	Power Supply Board	BKDS-7023LR	Volume 6	3-270

BKDS-7110 (SY) : S/N 10001 and Higher


1
2
3
4
5
CNX1
A9 SLOT4
B9 SLOT3
C9 SLOT2
D9 SLOT1
A10 SLOT0
A5 CKD (+)
B5 CKD (-)
C6 WDATA (+)
D6 WDATA (-)
A7 SADDA (+)
B7 SADDA (-)
A6 RDATA (+)
B6 RDATA (-)
SLT4
SLT3
SLT2
SLT1
CKDH
CKDL
WDTH
WDTL
ADDH
ADDL
RDTH
RDTL
IC3 SN75ALS195J
IC4 SN75ALS194N
CKDI
ADDI
DIN
DOUT
DEN
A4 THERMO
IC1 TC4S66F
R11 1k
TH1 102AT-2
IC5 CXD8052Q
VDD
MODE
GEND
CKDI
ADRI
DIN
DOUT
DEN
CA4
CA3
CA2
CA1
CA0
ROMCS
ROMCK
ROMO
ROMI
THMO
RST
VSS
CKDO1
CKDO2
ADRO
DIO
CS
CSXP
CS04
CS05
CS06
CS07
CS08
CS09
CS0A
CS0B
CS0C
CS0D
CS0E
CS0F
CS14
CS15
CS16
CS17
CS18
CS19
CS1A
CS1B
CS1C
CS1D
CS1E
CS1F
CS20
CS21
CS22
CS2B
ADR
DIO
R13 1k
EPCSI
EPCK
EPWD
EPRD
R59 10k
IC2 (7/8) TC74VHC540F
D7 CKX
C7 RST
A11 CK (27M/8FSC)
R1 100k
R3 100k
R5 100k
R7 1k
R8 1k
C8 100p
C9 100p
IC2 (3/8) TC74VHC540F
IC2 (1/8) TC74VHC540F
IC2 (2/8) TC74VHC540F
R12 22
CKX
RST
A8 HD
B8 VD
C8 FLOE
D8 V-BLNK
B10 SC
C10 CFP
D10 LALT
D11 SYNC
HDI
VDI
OEI
CFI
SYI
IC2 (4/8) TC74VHC540F
R2 100k
R4 100k
R6 100k
R9 100k
R10 100k
3V
A2 FUSE (+5V)
D1 1SS226
F1 10A
L1
A1 +5V
B1 +5V
C1 +5V
D1 +5V
C1 330 6.3V
C4 330 6.3V
C6 0.1
C10 330 6.3V
C12 330 6.3V
C4 -5V
D4 -5V
C5 -5V
D5 -5V
F2 10A
C2 330 6.3V
C5 330 6.3V
C7 0.1
C11 330 6.3V
C13 330 6.3V
C15 330 6.3V
R92 100
TP3
-5V
L2
D2 1SS226
B4 FUSE (-5V)
A3 FUSE (+3V)
D3 1SS226
F3 10A
L3
B2 +3V
C2 +3V
D2 +3V
B3 +3V
C3 +3V
D3 +3V
C23 330 6.3V
C24 0.1
C25 330 6.3V
E1
E2
E3
2/6 3/6 4/6 5/6 PCK
IC8 TC74ACT574F
HDI
IC10 (1/4) TC74VHC00F
IC10 (2/4) TC74VHC00F
IC10 (3/4) TC74VHC00F
IC10 (4/4) TC74VHC00F
IC12 (1/2) TC74VHC74F
IC12 (2/2) TC74VHC74F
IC7 (2/8) TC74VHC240F
IC7 (3/8) TC74VHC240F
IC7 (4/8) TC74VHC240F
IC7 (5/8) TC74VHC240F
IC7 (6/8) TC74VHC240F
IC7 (7/8) TC74VHC240F
IC7 (8/8) TC74VHC240F
IC6 TC74VHC244F
RB1 22
RB2 22
CKD1
CKD2
CKD3
CKD4
CKD5
CKD6
CKD7
CKD8
IC2 (5/8) TC74VHC540F
IC2 (6/8) TC74VHC540F
CS3A
CS3B
IC9 TC74ACT574F
RB3 22
CFP
FLOE
VD
HD
IC11 CX20158
R14 4.7k
R15 1k
R16 100
R17 75
R18 75
-SYNC
IC15 SN74LS594N
ADR
CKD7
CS3B
RST
SER
SRCK
RCK
R19 10k
R20 10k
R21 10k
R22 10k
IC18 TC74HC238AF
IC19 TC74HC238AF
EPCS1
EPCS2
EPCS3
EPCS4
EPCS5
EPCS6
EPCS7
EPCS8
EPCS9
EPCS10
EPCS11
EPCS12
IC20 CAT35C104K
CS
SK
DI
DO
EPCK
EPWD
EPRD
IC7 (1/8) TC74VHC240F
IC13 TC74VHC240F
IC16 TC74VHC240F
IC14 TC74VHC240F
IC17 TC74VHC244F
RB4 22
RB5 22
RB6 22
RB7 22
CK1
CK2
CK3
CK4
CK5
CK6
CK7
CKL1
CKL2
CKL3
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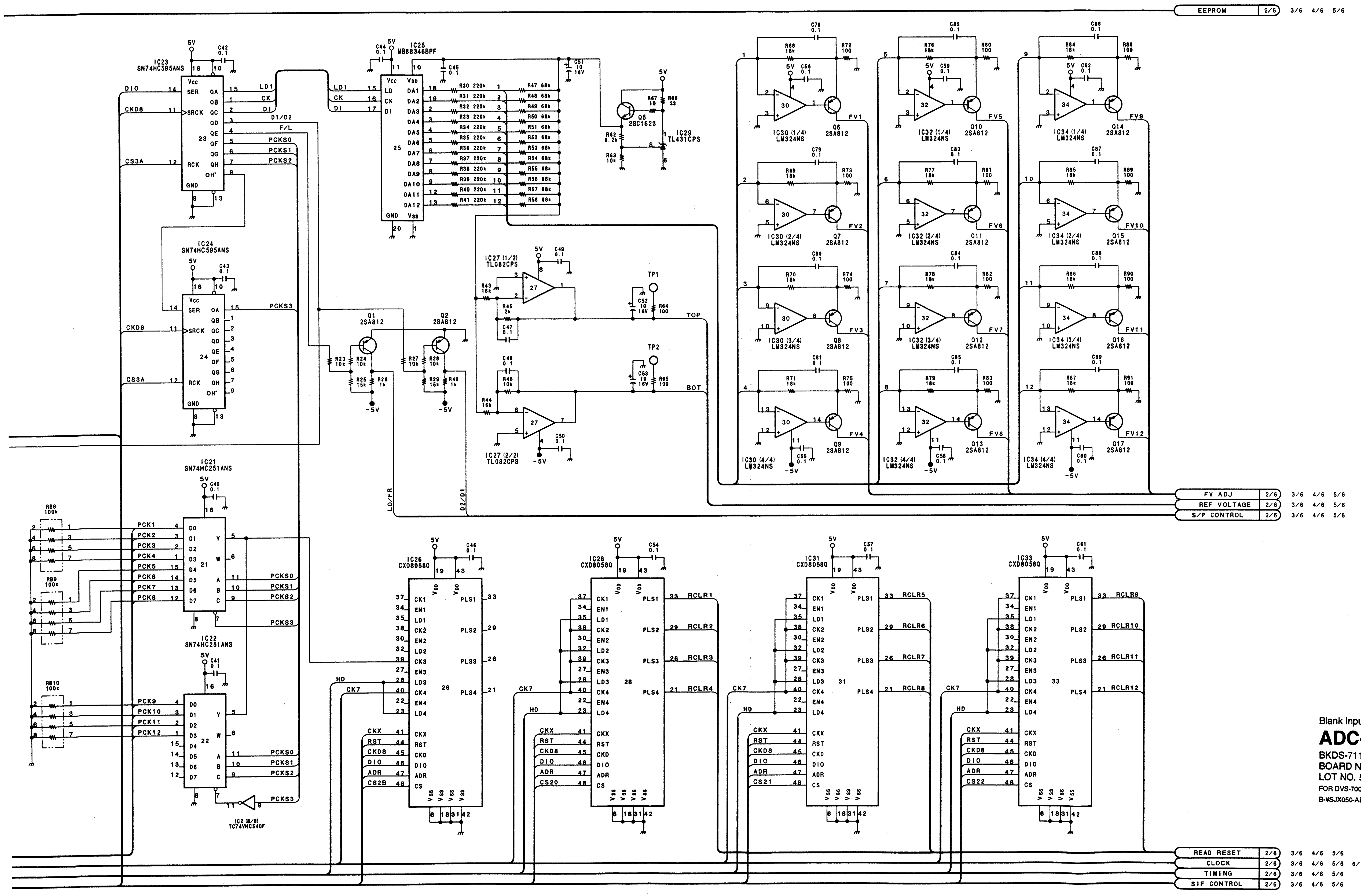
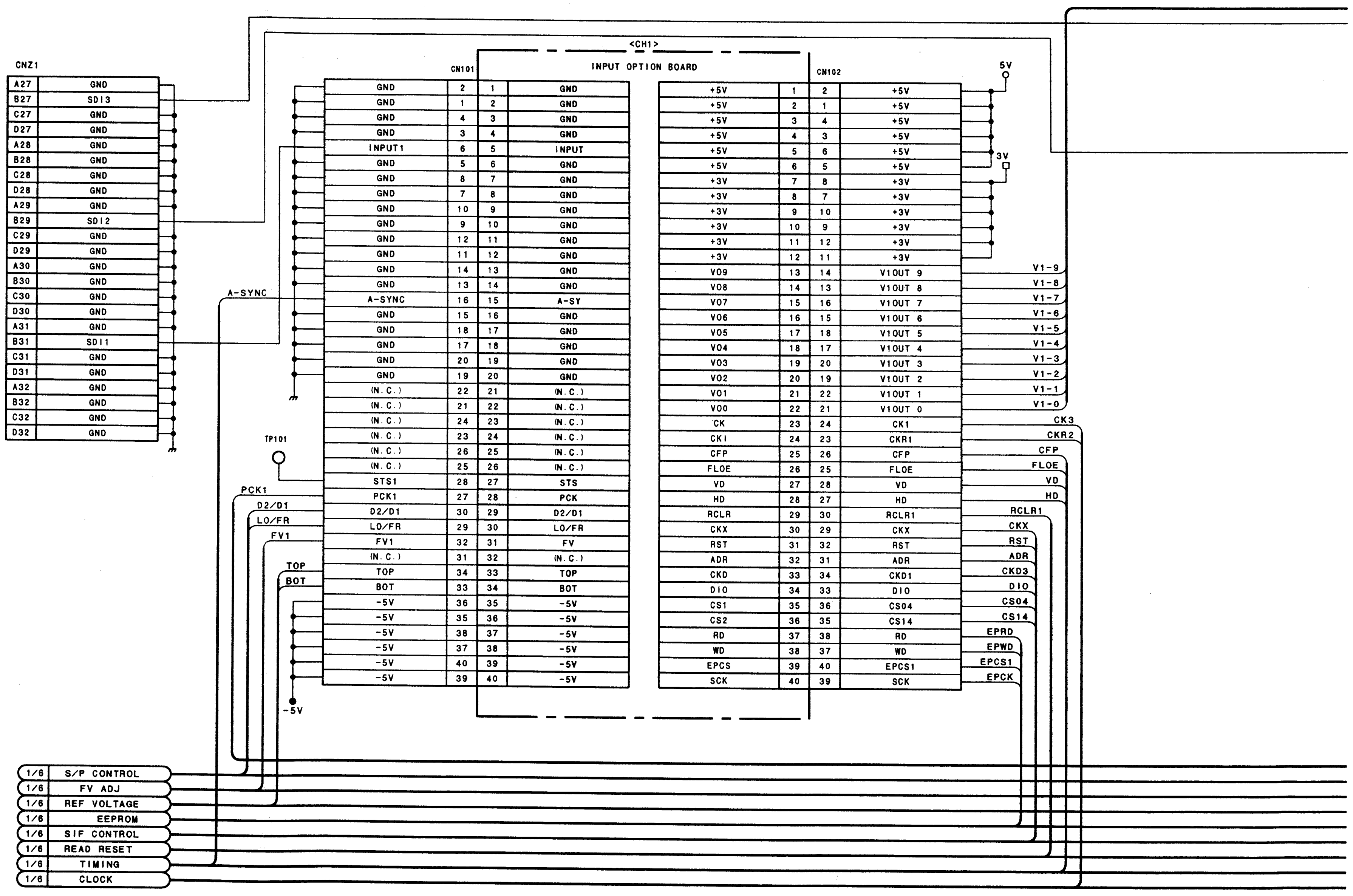
CKR2
CKR3
CKR4
A
B
C
D
E
F
G
H


EEPROM 2/6 3/6 4/6 5/6
IC23 SN74HC595ANS
IC24 SN74HC595ANS
IC25 MB88346BPF
IC21 SN74HC251ANS
IC22 SN74HC251ANS
IC2 (6/6) TC74VHC540F
IC27 (1/2) TL082CPS
IC27 (2/2) TL082CPS
IC29 TL431CPS
Q5 2SC1623
Q1 2SA812
Q2 2SA812
TP1
TP2
TOP
BOT
IC30 (1/4) LM324NS
IC30 (2/4) LM324NS
IC30 (3/4) LM324NS
IC30 (4/4) LM324NS
IC32 (1/4) LM324NS
IC32 (2/4) LM324NS
IC32 (3/4) LM324NS
IC32 (4/4) LM324NS
IC34 (1/4) LM324NS
IC34 (2/4) LM324NS
IC34 (3/4) LM324NS
IC34 (4/4) LM324NS
Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 2SA812
FV1 FV2 FV3 FV4 FV5 FV6 FV7 FV8 FV9 FV10 FV11 FV12
FV ADJ 2/6 3/6 4/6 5/6
REF VOLTAGE 2/6 3/6 4/6 5/6
S/P CONTROL 2/6 3/6 4/6 5/6
IC26 CXD8058Q
IC28 CXD8058Q
IC31 CXD8058Q
IC33 CXD8058Q
RCLR1 RCLR2 RCLR3 RCLR4 RCLR5 RCLR6 RCLR7 RCLR8 RCLR9 RCLR10 RCLR11 RCLR12
DIO CKD8 CS3A LD1 CK DI D1/D2 F/L PCKS0 PCKS1 PCKS2 PCKS3
PCK1 PCK2 PCK3 PCK4 PCK5 PCK6 PCK7 PCK8 PCK9 PCK10 PCK11 PCK12
RB8 100k
RB9 100k
RB10 100k
HD CK7 CKX RST CKD8 DIO ADR CS2B CS20 CS21 CS22
LO/FR
D2/D1
READ RESET 2/6 3/6 4/6 5/6
CLOCK 2/6 3/6 4/6 5/6 6/6
TIMING 2/6 3/6 4/6 5/6
SIF CONTROL 2/6 3/6 4/6 5/6
I J K L M N O P
1 2 3 4 5

Blank Input Adaptor Board
ADC-21 (1/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC21

BKDS-7110 (SY) : S/N 10001 and Higher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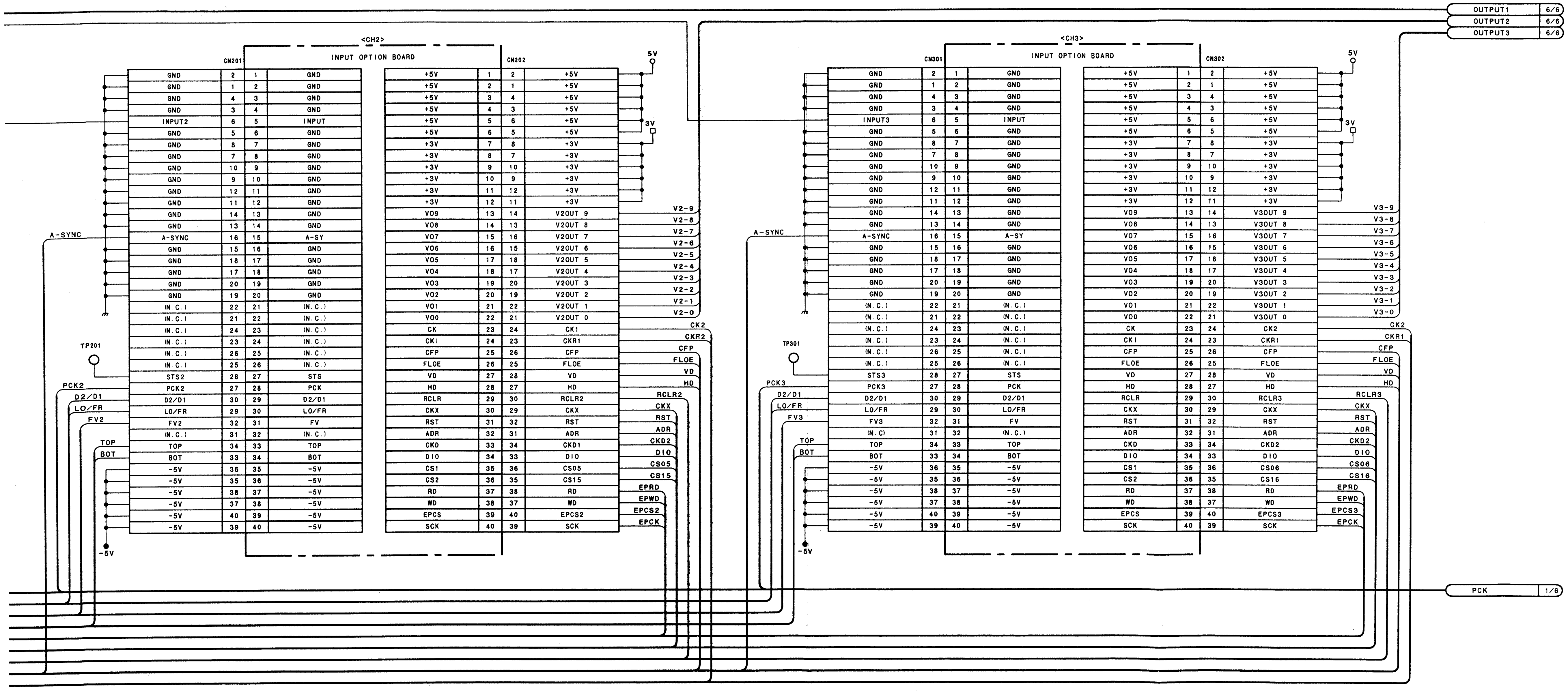
A27 GND
B27 SDI3
C27 GND
D27 GND
A28 GND
B28 GND
C28 GND
D28 GND
A29 GND
B29 SDI2
C29 GND
D29 GND
A30 GND
B30 GND
C30 GND
D30 GND
A31 GND
B31 SDI1
C31 GND
D31 GND
A32 GND
B32 GND
C32 GND
D32 GND
A-SYNC
TP101
PCK1
D2/D1
LO/FR
FV1
TOP
BOT
-5V
<CH1>
INPUT OPTION BOARD
CN101
CN102
GND
INPUT1
A-SYNC
A-SY
(N.C.)
STS1
STS
PCK1
PCK
D2/D1
LO/FR
FV1
FV
TOP
BOT
-5V
+5V
+3V
VO9
VO8
VO7
VO6
VO5
VO4
VO3
VO2
VO1
VO0
V1OUT 9
V1OUT 8
V1OUT 7
V1OUT 6
V1OUT 5
V1OUT 4
V1OUT 3
V1OUT 2
V1OUT 1
V1OUT 0
CK
CKI
CK1
CKR1
CFP
FLOE
VD
HD
RCLR
RCLR1
CKX
RST
ADR
CKD
CKD1
DIO
CS1
CS2
CS04
CS14
RD
WD
EPCS
EPCS1
SCK
5V
3V
V1-9
V1-8
V1-7
V1-6
V1-5
V1-4
V1-3
V1-2
V1-1
V1-0
CK3
CKR2
CFP
FLOE
VD
HD
RCLR1
CKX
RST
ADR
CKD3
DIO
CS04
CS14
EPRD
EPWD
EPCS1
EPCK
1/6 S/P CONTROL
1/6 FV ADJ
1/6 REF VOLTAGE
1/6 EEPROM
1/6 SIF CONTROL
1/6 READ RESET
1/6 TIMING
1/6 CLOCK
1
2
3
4
5
A
B
C
D
E
F
G
H

ADC-21 (2/6) Blank Input Adaptor Board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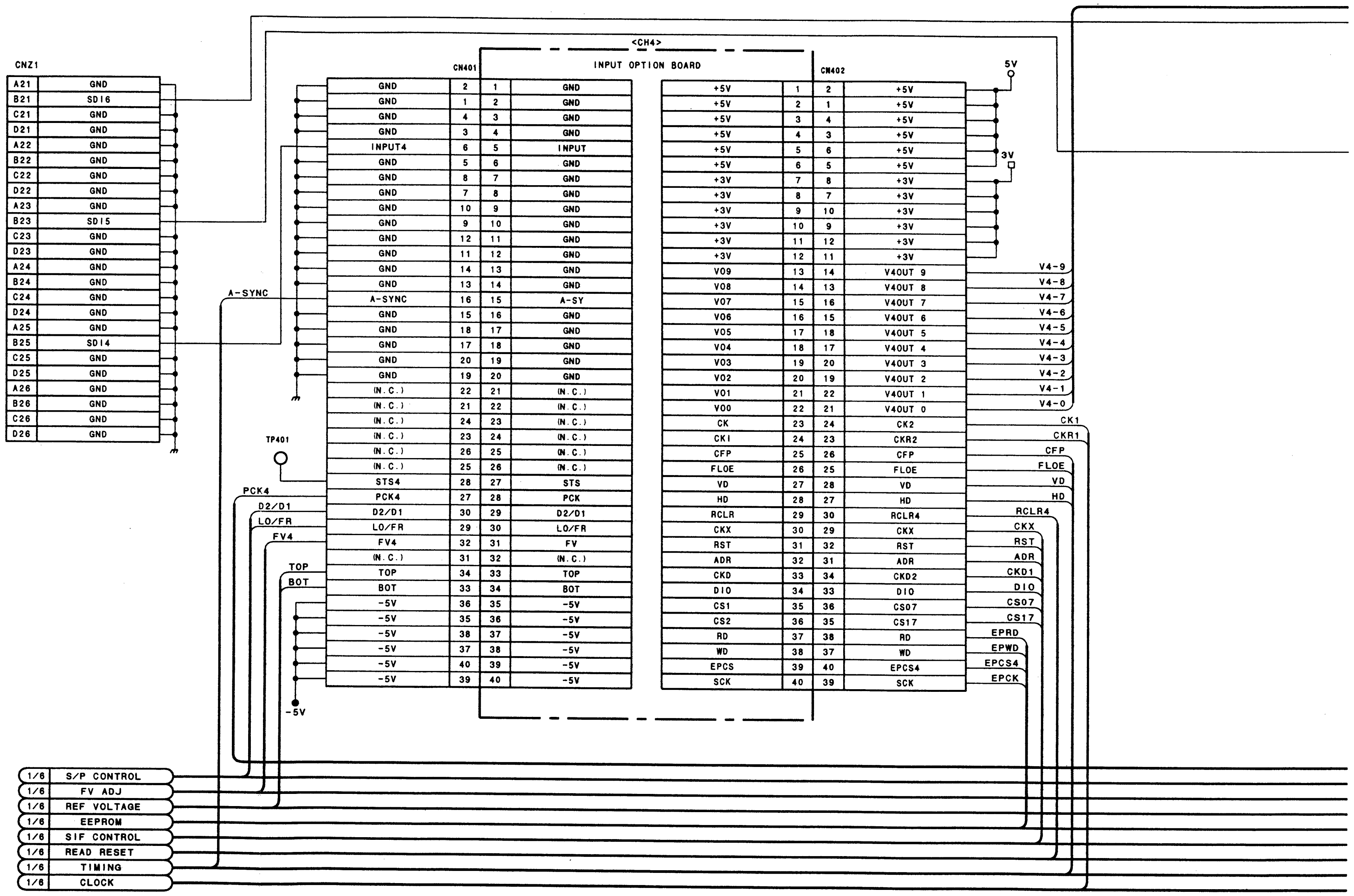
OUTPUT2 6/6
OUTPUT3 6/6
PCK 1/6
<CH2>
INPUT OPTION BOARD
CN201
CN202
<CH3>
CN301
CN302
5V
3V
-5V
A-SYNC
TP201
TP301
PCK2
D2/D1
LO/FR
FV2
TOP
BOT
PCK3
FV3
GND
INPUT2
INPUT3
INPUT
A-SY
(N.C.)
STS2
STS3
STS
PCK
FV
+5V
+3V
VO9
VO8
VO7
VO6
VO5
VO4
VO3
VO2
VO1
VO0
CK
CKI
CFP
FLOE
VD
HD
RCLR
CKX
RST
ADR
CKD
DIO
CS1
CS2
RD
WD
EPCS
SCK
V2OUT 9
V2OUT 8
V2OUT 7
V2OUT 6
V2OUT 5
V2OUT 4
V2OUT 3
V2OUT 2
V2OUT 1
V2OUT 0
CK1
CKR1
RCLR2
CKD1
CS05
CS15
EPCS2
V3OUT 9
V3OUT 8
V3OUT 7
V3OUT 6
V3OUT 5
V3OUT 4
V3OUT 3
V3OUT 2
V3OUT 1
V3OUT 0
CK2
RCLR3
CKD2
CS06
CS16
EPCS3
V2-9
V2-8
V2-7
V2-6
V2-5
V2-4
V2-3
V2-2
V2-1
V2-0
V3-9
V3-8
V3-7
V3-6
V3-5
V3-4
V3-3
V3-2
V3-1
V3-0
CKR2
EPRD
EPWD
EPCK

1
2
3
4
5

Blank Input Adaptor Board
ADC-21 (2/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC21

BKDS-7110 (SY) : S/N 10001 and Higher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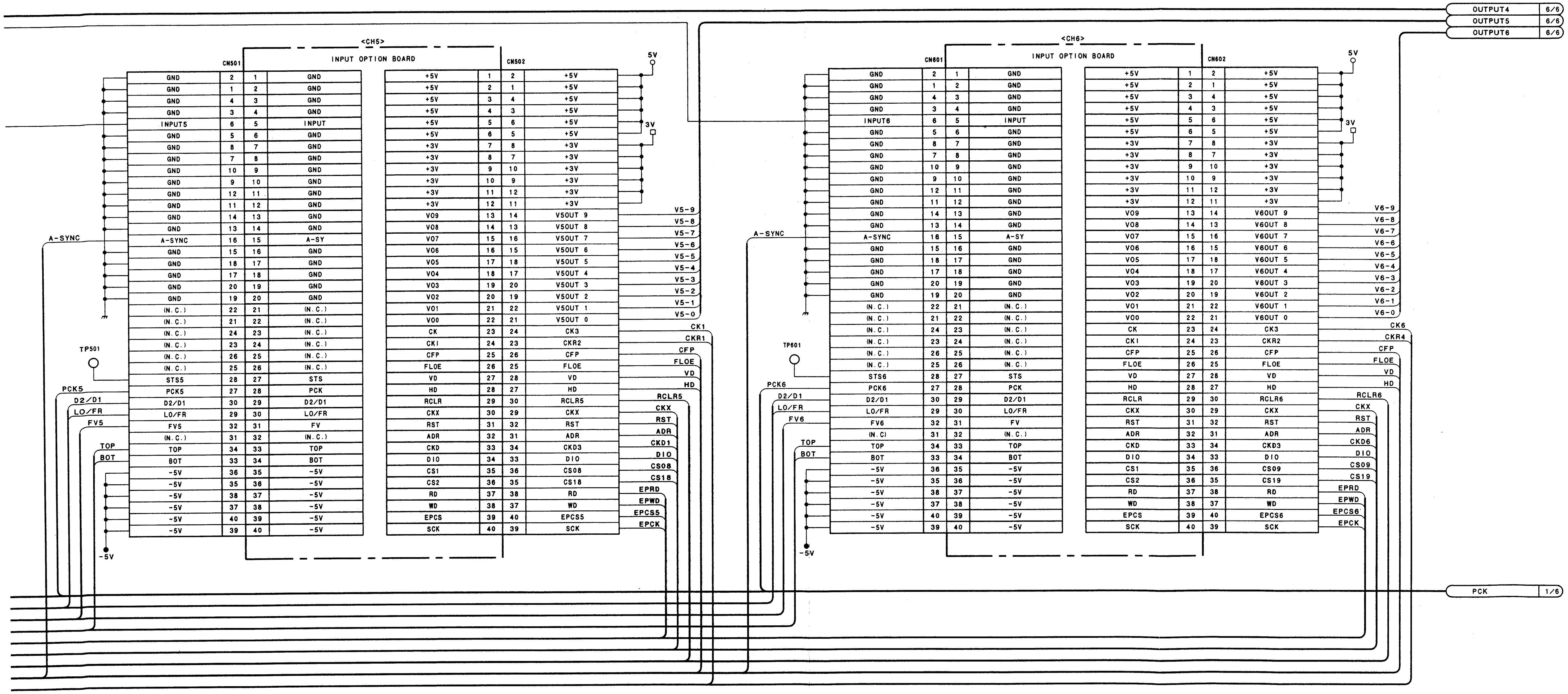
B21 SDI6
C21 GND
D21 GND
A22 GND
B22 GND
C22 GND
D22 GND
A23 GND
B23 SDI5
C23 GND
D23 GND
A24 GND
B24 GND
C24 GND
D24 GND
A25 GND
B25 SDI4
C25 GND
D25 GND
A26 GND
B26 GND
C26 GND
D26 GND
<CH4>
INPUT OPTION BOARD
CN401
GND 2 1 GND
GND 1 2 GND
GND 4 3 GND
GND 3 4 GND
INPUT4 6 5 INPUT
GND 5 6 GND
GND 8 7 GND
GND 7 8 GND
GND 10 9 GND
GND 9 10 GND
GND 12 11 GND
GND 11 12 GND
GND 14 13 GND
GND 13 14 GND
A-SYNC 16 15 A-SY
GND 15 16 GND
GND 18 17 GND
GND 17 18 GND
GND 20 19 GND
GND 19 20 GND
(N.C.) 22 21 (N.C.)
(N.C.) 21 22 (N.C.)
(N.C.) 24 23 (N.C.)
(N.C.) 23 24 (N.C.)
(N.C.) 26 25 (N.C.)
(N.C.) 25 26 (N.C.)
STS4 28 27 STS
PCK4 27 28 PCK
D2/D1 30 29 D2/D1
LO/FR 29 30 LO/FR
FV4 32 31 FV
(N.C.) 31 32 (N.C.)
TOP 34 33 TOP
BOT 33 34 BOT
-5V 36 35 -5V
-5V 35 36 -5V
-5V 38 37 -5V
-5V 37 38 -5V
-5V 40 39 -5V
-5V 39 40 -5V
A-SYNC
TP401
PCK4
D2/D1
LO/FR
FV4
TOP
BOT
-5V
CN402
+5V 1 2 +5V
+5V 2 1 +5V
+5V 3 4 +5V
+5V 4 3 +5V
+5V 5 6 +5V
+5V 6 5 +5V
+3V 7 8 +3V
+3V 8 7 +3V
+3V 9 10 +3V
+3V 10 9 +3V
+3V 11 12 +3V
+3V 12 11 +3V
VO9 13 14 V4OUT 9
VO8 14 13 V4OUT 8
VO7 15 16 V4OUT 7
VO6 16 15 V4OUT 6
VO5 17 18 V4OUT 5
VO4 18 17 V4OUT 4
VO3 19 20 V4OUT 3
VO2 20 19 V4OUT 2
VO1 21 22 V4OUT 1
VO0 22 21 V4OUT 0
CK 23 24 CK2
CKI 24 23 CKR2
CFP 25 26 CFP
FLOE 26 25 FLOE
VD 27 28 VD
HD 28 27 HD
RCLR 29 30 RCLR4
CKX 30 29 CKX
RST 31 32 RST
ADR 32 31 ADR
CKD 33 34 CKD2
DIO 34 33 DIO
CS1 35 36 CS07
CS2 36 35 CS17
RD 37 38 RD
WD 38 37 WD
EPCS 39 40 EPCS4
SCK 40 39 SCK
5V
3V
V4-9
V4-8
V4-7
V4-6
V4-5
V4-4
V4-3
V4-2
V4-1
V4-0
CK1
CKR1
CFP
FLOE
VD
HD
RCLR4
CKX
RST
ADR
CKD1
DIO
CS07
CS17
EPRD
EPWD
EPCS4
EPCK
1/6 S/P CONTROL
1/6 FV ADJ
1/6 REF VOLTAGE
1/6 EEPROM
1/6 SIF CONTROL
1/6 READ RESET
1/6 TIMING
1/6 CLOCK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OUTPUT5 6/6
OUTPUT6 6/6
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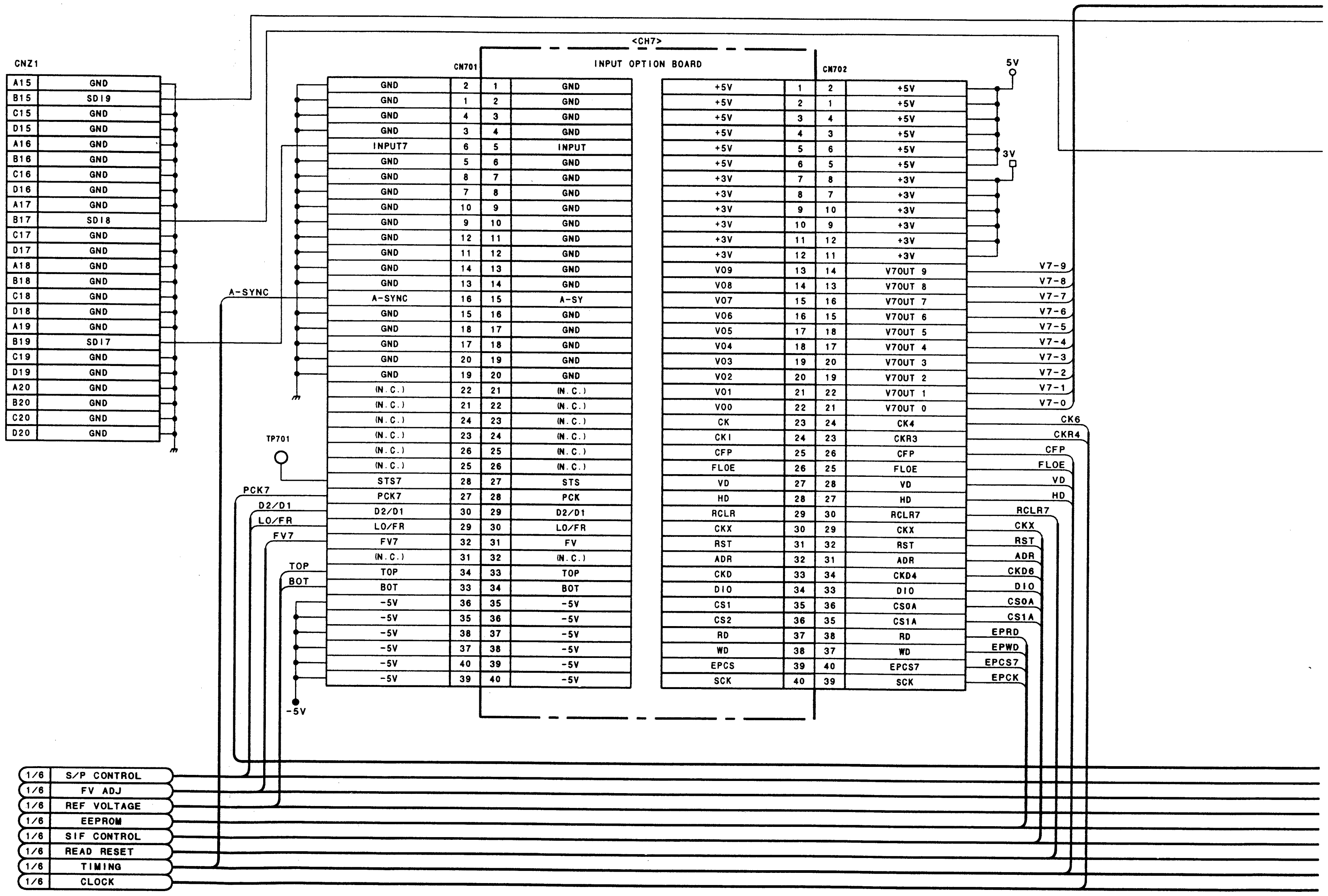
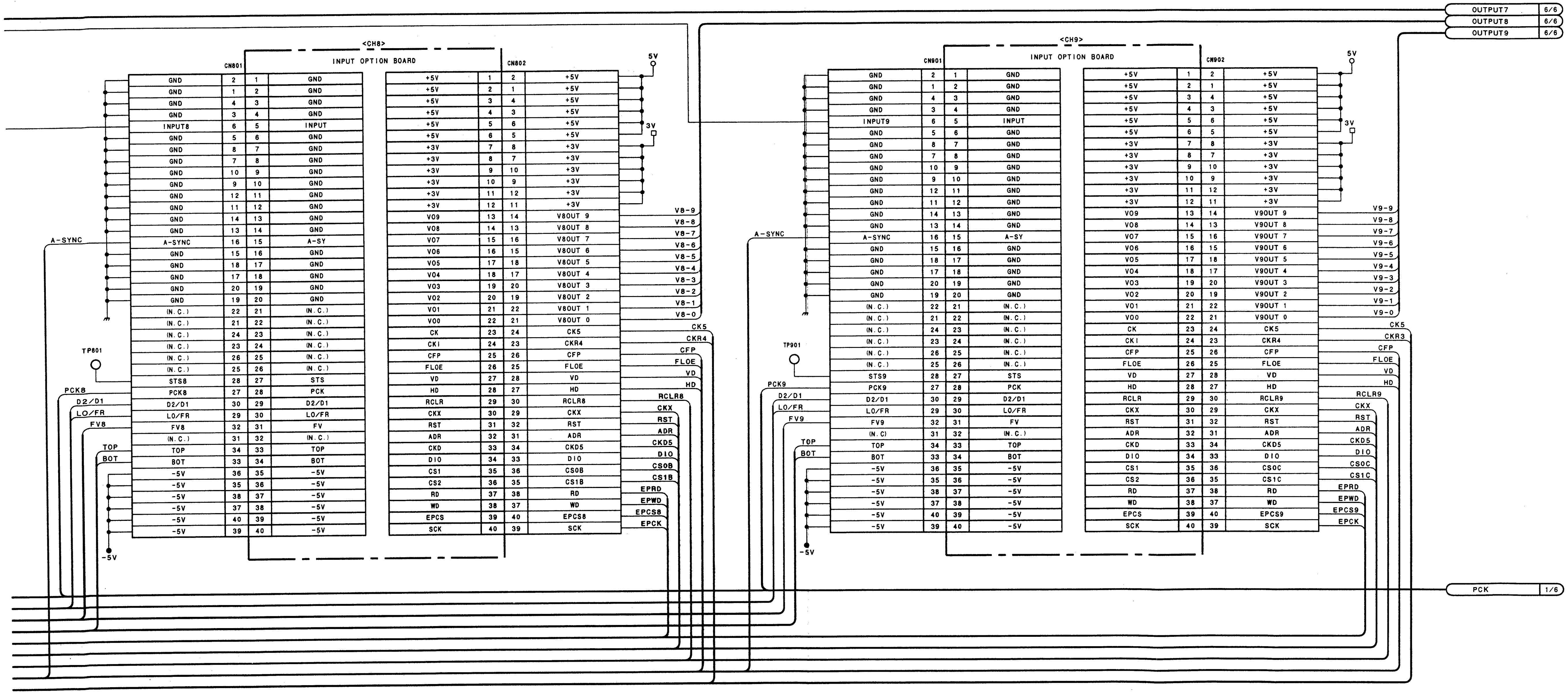
INPUT OPTION BOARD
CN501
CN502
<CH6>
INPUT OPTION BOARD
CN601
CN602
5V
3V
-5V
TP501
TP601
A-SYNC
PCK5
D2/D1
LO/FR
FV5
TOP
BOT
PCK6
FV6
V5-9
V5-8
V5-7
V5-6
V5-5
V5-4
V5-3
V5-2
V5-1
V5-0
V6-9
V6-8
V6-7
V6-6
V6-5
V6-4
V6-3
V6-2
V6-1
V6-0
CK1
CKR1
CK6
CKR4
CFP
FLOE
VD
HD
RCLR5
RCLR6
CKX
RST
ADR
CKD1
CKD6
DIO
CS08
CS18
CS09
CS19
EPRD
EPWD
EPCS5
EPCS6
EPCK
PCK 1/6

Blank Input Adaptor Board
ADC-21 (3/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC21

ADC-21 (4/6) Blank Input Adaptor Board

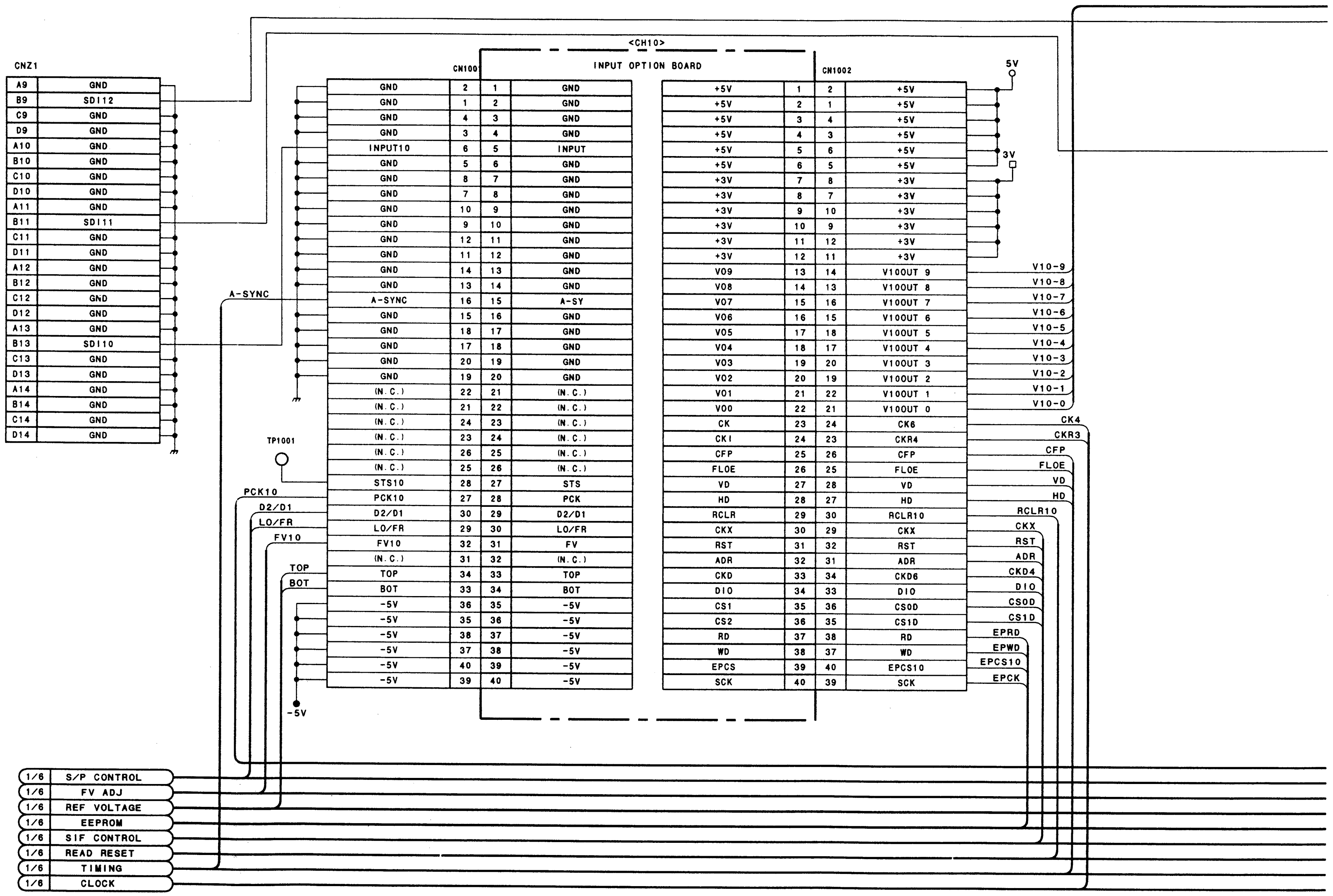
BKDS-7110 (SY) : S/N 10001 and Higher

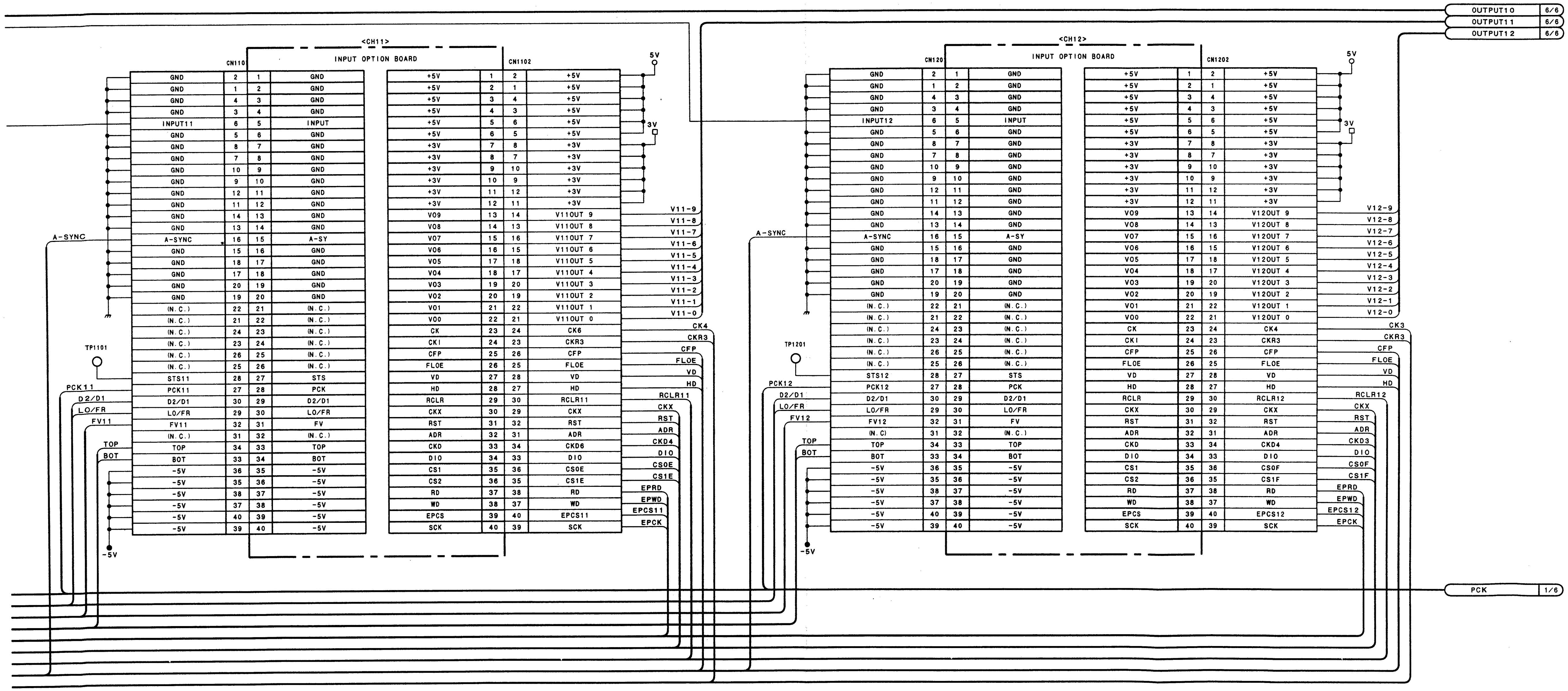

CNZ1
A15 GND
B15 SDI9
C15 GND
D15 GND
A16 GND
B16 GND
C16 GND
D16 GND
A17 GND
B17 SDI8
C17 GND
D17 GND
A18 GND
B18 GND
C18 GND
D18 GND
A19 GND
B19 SDI7
C19 GND
D19 GND
A20 GND
B20 GND
C20 GND
D20 GND
<CH7>
INPUT OPTION BOARD
CN701
CN702
GND
INPUT7
INPUT
A-SYNC
A-SY
(N.C.)
STS7
STS
PCK7
PCK
D2/D1
LO/FR
FV7
FV
TOP
BOT
-5V
TP701
+5V
+3V
V09 V08 V07 V06 V05 V04 V03 V02 V01 V00
V7OUT 9 V7OUT 8 V7OUT 7 V7OUT 6 V7OUT 5 V7OUT 4 V7OUT 3 V7OUT 2 V7OUT 1 V7OUT 0
V7-9 V7-8 V7-7 V7-6 V7-5 V7-4 V7-3 V7-2 V7-1 V7-0
CK CKI CK4 CKR3 CK6 CKR4
CFP FLOE VD HD
RCLR RCLR7
CKX RST ADR
CKD CKD4 CKD6
DIO
CS1 CS2 CS0A CS1A
RD WD
EPCS EPCS7
SCK
EPRD EPWD EPCK
5V
3V
1/6 S/P CONTROL
1/6 FV ADJ
1/6 REF VOLTAGE
1/6 EEPROM
1/6 SIF CONTROL
1/6 READ RESET
1/6 TIMING
1/6 CLOCK


OUTPUT7 6/6
OUTPUT8 6/6
OUTPUT9 6/6
<CH8>
INPUT OPTION BOARD
CN801
CN802
5V
3V
A-SYNC
INPUT8
TP801
PCK8
D2/D1
LO/FR
FV8
TOP
BOT
-5V
V8-9
V8-8
V8-7
V8-6
V8-5
V8-4
V8-3
V8-2
V8-1
V8-0
CK5
CKR4
CFP
FLOE
VD
HD
RCLR8
CKX
RST
ADR
CKD5
DIO
CS0B
CS1B
EPRD
EPWD
EPCS8
EPCK
<CH9>
INPUT OPTION BOARD
CN901
CN902
5V
3V
A-SYNC
INPUT9
TP901
PCK9
D2/D1
LO/FR
FV9
TOP
BOT
-5V
V9-9
V9-8
V9-7
V9-6
V9-5
V9-4
V9-3
V9-2
V9-1
V9-0
CK5
CKR3
CFP
FLOE
VD
HD
RCLR9
CKX
RST
ADR
CKD5
DIO
CS0C
CS1C
EPRD
EPWD
EPCS9
EPCK
PCK 1/6

Blank Input Adaptor Board
ADC-21 (4/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC21

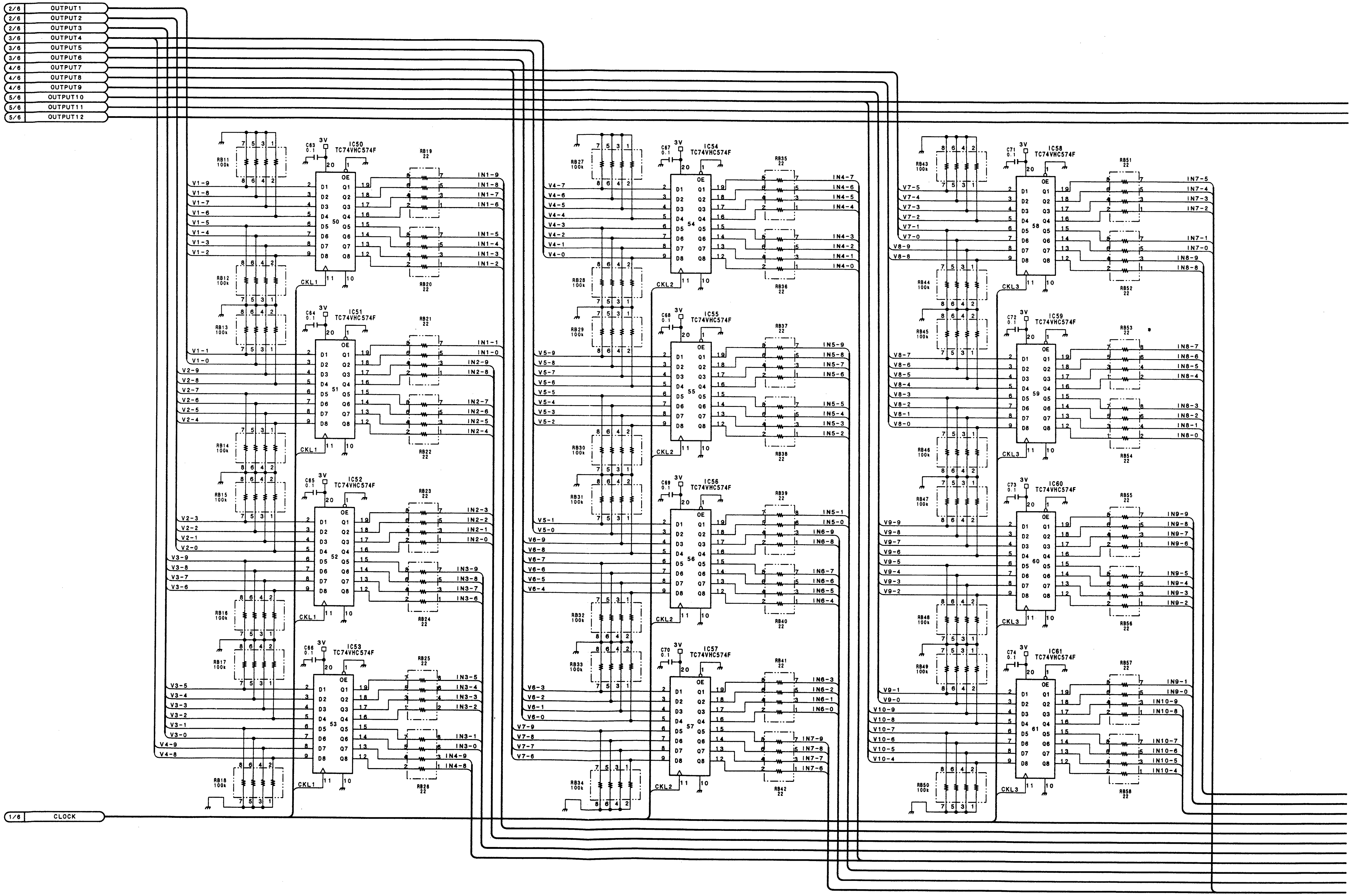
BKDS-7110 (SY) : S/N 10001 and Higher

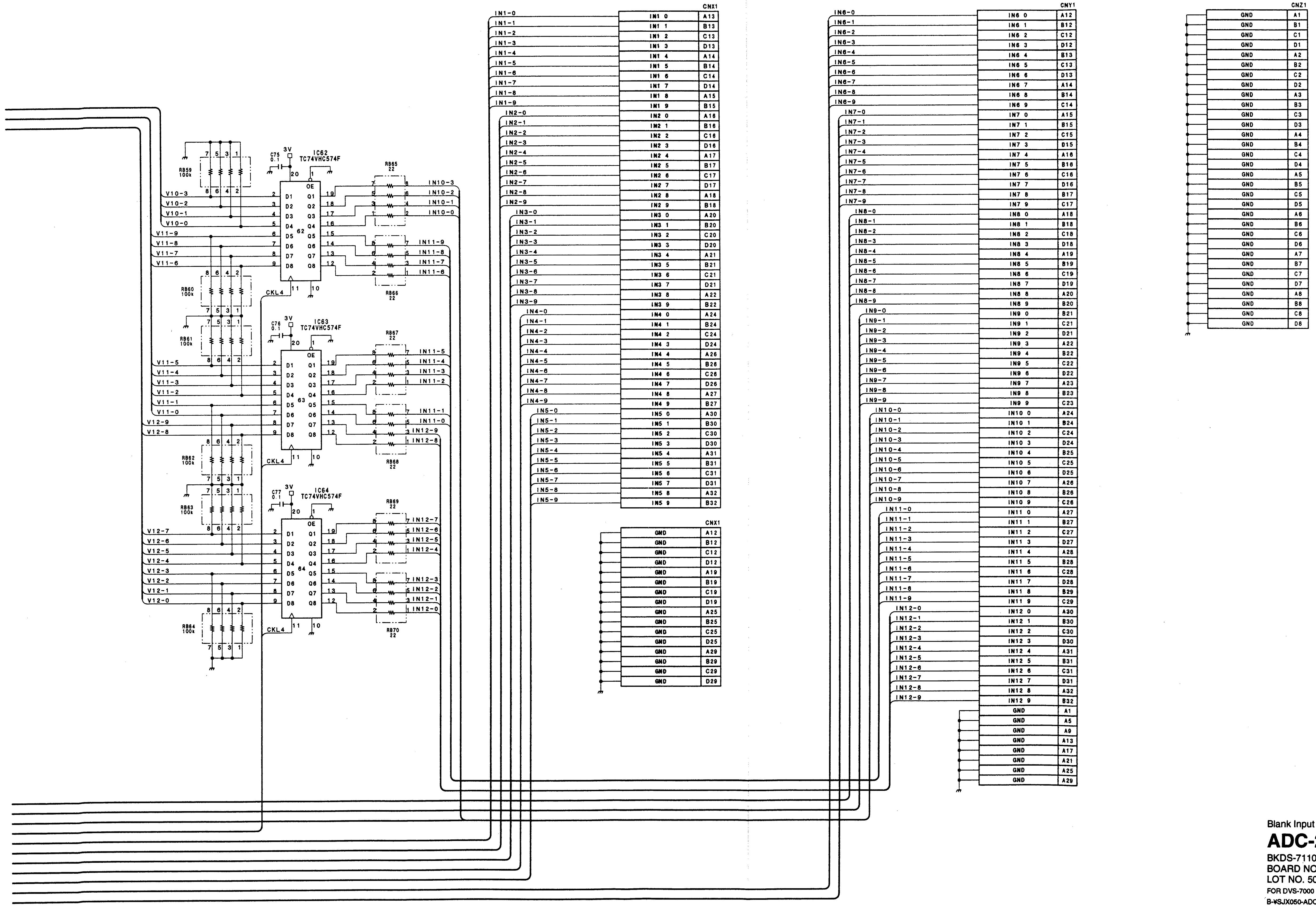

CNZ1
A9 GND
B9 SDI12
B11 SDI11
B13 SDI10
A-SYNC
TP1001
PCK10
D2/D1
LO/FR
FV10
TOP
BOT
-5V
<CH10>
CN1001
INPUT OPTION BOARD
CN1002
5V
3V
INPUT10
INPUT
STS10
STS
PCK
FV
V100UT 9
V10-9
V10-8
V10-7
V10-6
V10-5
V10-4
V10-3
V10-2
V10-1
V10-0
CK4
CKR3
CFP
FLOE
VD
HD
RCLR10
CKX
RST
ADR
CKD4
DIO
CS0D
CS1D
EPRD
EPWD
EPCS10
EPCK
1/6 S/P CONTROL
1/6 FV ADJ
1/6 REF VOLTAGE
1/6 EEPROM
1/6 SIF CONTROL
1/6 READ RESET
1/6 TIMING
1/6 CLOCK


<CH11>
INPUT OPTION BOARD
CN1101
CN1102
<CH12>
CN1201
CN1202
OUTPUT10 6/6
OUTPUT11 6/6
OUTPUT12 6/6
PCK 1/6
A-SYNC
TP1101
TP1201
PCK11
PCK12
5V
3V
-5V

Blank Input Adaptor Board
ADC-21 (5/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC20

BKDS-7110 (SY) : S/N 10001 and Higher


1
2
3
4
5
2/6 OUTPUT1
2/6 OUTPUT2
2/6 OUTPUT3
3/6 OUTPUT4
3/6 OUTPUT5
3/6 OUTPUT6
4/6 OUTPUT7
4/6 OUTPUT8
4/6 OUTPUT9
5/6 OUTPUT10
5/6 OUTPUT11
5/6 OUTPUT12
1/6 CLOCK
IC50 TC74VHC574F
IC51 TC74VHC574F
IC52 TC74VHC574F
IC53 TC74VHC574F
IC54 TC74VHC574F
IC55 TC74VHC574F
IC56 TC74VHC574F
IC57 TC74VHC574F
IC58 TC74VHC574F
IC59 TC74VHC574F
IC60 TC74VHC574F
IC61 TC74VHC574F
3V
C63 0.1
C64 0.1
C65 0.1
C66 0.1
C67 0.1
C68 0.1
C69 0.1
C70 0.1
C71 0.1
C72 0.1
C73 0.1
C74 0.1
RB11 100k
RB12 100k
RB13 100k
RB14 100k
RB15 100k
RB16 100k
RB17 100k
RB18 100k
RB27 100k
RB28 100k
RB29 100k
RB30 100k
RB31 100k
RB32 100k
RB33 100k
RB34 100k
RB43 100k
RB44 100k
RB45 100k
RB46 100k
RB47 100k
RB48 100k
RB49 100k
RB50 100k
RB19 22
RB20 22
RB21 22
RB22 22
RB23 22
RB24 22
RB25 22
RB26 22
RB35 22
RB36 22
RB37 22
RB38 22
RB39 22
RB40 22
RB41 22
RB42 22
RB51 22
RB52 22
RB53 22
RB54 22
RB55 22
RB56 22
RB57 22
RB58 22
OE
D1 D2 D3 D4 D5 D6 D7 D8
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8
CKL1
CKL2
CKL3
V1-9 V1-8 V1-7 V1-6 V1-5 V1-4 V1-3 V1-2
V1-1 V1-0 V2-9 V2-8 V2-7 V2-6 V2-5 V2-4
V2-3 V2-2 V2-1 V2-0 V3-9 V3-8 V3-7 V3-6
V3-5 V3-4 V3-3 V3-2 V3-1 V3-0 V4-9 V4-8
V4-7 V4-6 V4-5 V4-4 V4-3 V4-2 V4-1 V4-0
V5-9 V5-8 V5-7 V5-6 V5-5 V5-4 V5-3 V5-2
V5-1 V5-0 V6-9 V6-8 V6-7 V6-6 V6-5 V6-4
V6-3 V6-2 V6-1 V6-0 V7-9 V7-8 V7-7 V7-6
V7-5 V7-4 V7-3 V7-2 V7-1 V7-0 V8-9 V8-8
V8-7 V8-6 V8-5 V8-4 V8-3 V8-2 V8-1 V8-0
V9-9 V9-8 V9-7 V9-6 V9-5 V9-4 V9-3 V9-2
V9-1 V9-0 V10-9 V10-8 V10-7 V10-6 V10-5 V10-4
IN1-9 IN1-8 IN1-7 IN1-6 IN1-5 IN1-4 IN1-3 IN1-2
IN1-1 IN1-0 IN2-9 IN2-8 IN2-7 IN2-6 IN2-5 IN2-4
IN2-3 IN2-2 IN2-1 IN2-0 IN3-9 IN3-8 IN3-7 IN3-6
IN3-5 IN3-4 IN3-3 IN3-2 IN3-1 IN3-0 IN4-9 IN4-8
IN4-7 IN4-6 IN4-5 IN4-4 IN4-3 IN4-2 IN4-1 IN4-0
IN5-9 IN5-8 IN5-7 IN5-6 IN5-5 IN5-4 IN5-3 IN5-2
IN5-1 IN5-0 IN6-9 IN6-8 IN6-7 IN6-6 IN6-5 IN6-4
IN6-3 IN6-2 IN6-1 IN6-0 IN7-9 IN7-8 IN7-7 IN7-6
IN7-5 IN7-4 IN7-3 IN7-2 IN7-1 IN7-0 IN8-9 IN8-8
IN8-7 IN8-6 IN8-5 IN8-4 IN8-3 IN8-2 IN8-1 IN8-0
IN9-9 IN9-8 IN9-7 IN9-6 IN9-5 IN9-4 IN9-3 IN9-2
IN9-1 IN9-0 IN10-9 IN10-8 IN10-7 IN10-6 IN10-5 IN10-4
A
B
C
D
E
F
G
H


IC62 TC74VHC574F
IC63 TC74VHC574F
IC64 TC74VHC574F
3V
C75 0.1
C76 0.1
C77 0.1
CKL4
RB59 100k
RB60 100k
RB61 100k
RB62 100k
RB63 100k
RB64 100k
RB65 22
RB66 22
RB67 22
RB68 22
RB69 22
RB70 22
V10-3
V10-2
V10-1
V10-0
V11-9
V11-8
V11-7
V11-6
V11-5
V11-4
V11-3
V11-2
V11-1
V11-0
V12-9
V12-8
V12-7
V12-6
V12-5
V12-4
V12-3
V12-2
V12-1
V12-0
IN10-3
IN10-2
IN10-1
IN10-0
IN11-9
IN11-8
IN11-7
IN11-6
IN11-5
IN11-4
IN11-3
IN11-2
IN11-1
IN11-0
IN12-9
IN12-8
IN12-7
IN12-6
IN12-5
IN12-4
IN12-3
IN12-2
IN12-1
IN12-0
CNX1
IN1 0 A13
IN1 1 B13
IN1 2 C13
IN1 3 D13
IN1 4 A14
IN1 5 B14
IN1 6 C14
IN1 7 D14
IN1 8 A15
IN1 9 B15
IN2 0 A16
IN2 1 B16
IN2 2 C16
IN2 3 D16
IN2 4 A17
IN2 5 B17
IN2 6 C17
IN2 7 D17
IN2 8 A18
IN2 9 B18
IN3 0 A20
IN3 1 B20
IN3 2 C20
IN3 3 D20
IN3 4 A21
IN3 5 B21
IN3 6 C21
IN3 7 D21
IN3 8 A22
IN3 9 B22
IN4 0 A24
IN4 1 B24
IN4 2 C24
IN4 3 D24
IN4 4 A26
IN4 5 B26
IN4 6 C26
IN4 7 D26
IN4 8 A27
IN4 9 B27
IN5 0 A30
IN5 1 B30
IN5 2 C30
IN5 3 D30
IN5 4 A31
IN5 5 B31
IN5 6 C31
IN5 7 D31
IN5 8 A32
IN5 9 B32
CNX1
GND A12
GND B12
GND C12
GND D12
GND A19
GND B19
GND C19
GND D19
GND A25
GND B25
GND C25
GND D25
GND A29
GND B29
GND C29
GND D29
CNY1
IN6 0 A12
IN6 1 B12
IN6 2 C12
IN6 3 D12
IN6 4 B13
IN6 5 C13
IN6 6 D13
IN6 7 A14
IN6 8 B14
IN6 9 C14
IN7 0 A15
IN7 1 B15
IN7 2 C15
IN7 3 D15
IN7 4 A16
IN7 5 B16
IN7 6 C16
IN7 7 D16
IN7 8 B17
IN7 9 C17
IN8 0 A18
IN8 1 B18
IN8 2 C18
IN8 3 D18
IN8 4 A19
IN8 5 B19
IN8 6 C19
IN8 7 D19
IN8 8 A20
IN8 9 B20
IN9 0 B21
IN9 1 C21
IN9 2 D21
IN9 3 A22
IN9 4 B22
IN9 5 C22
IN9 6 D22
IN9 7 A23
IN9 8 B23
IN9 9 C23
IN10 0 A24
IN10 1 B24
IN10 2 C24
IN10 3 D24
IN10 4 B25
IN10 5 C25
IN10 6 D25
IN10 7 A26
IN10 8 B26
IN10 9 C26
IN11 0 A27
IN11 1 B27
IN11 2 C27
IN11 3 D27
IN11 4 A28
IN11 5 B28
IN11 6 C28
IN11 7 D28
IN11 8 B29
IN11 9 C29
IN12 0 A30
IN12 1 B30
IN12 2 C30
IN12 3 D30
IN12 4 A31
IN12 5 B31
IN12 6 C31
IN12 7 D31
IN12 8 A32
IN12 9 B32
GND A1
GND A5
GND A9
GND A13
GND A17
GND A21
GND A25
GND A29
CNZ1
GND A1
GND B1
GND C1
GND D1
GND A2
GND B2
GND C2
GND D2
GND A3
GND B3
GND C3
GND D3
GND A4
GND B4
GND C4
GND D4
GND A5
GND B5
GND C5
GND D5
GND A6
GND B6
GND C6
GND D6
GND A7
GND B7
GND C7
GND D7
GND A8
GND B8
GND C8
GND D8

Blank Input Adaptor Board
ADC-21 (6/6)
BKDS-7110
BOARD NO. 1-658-409-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC21

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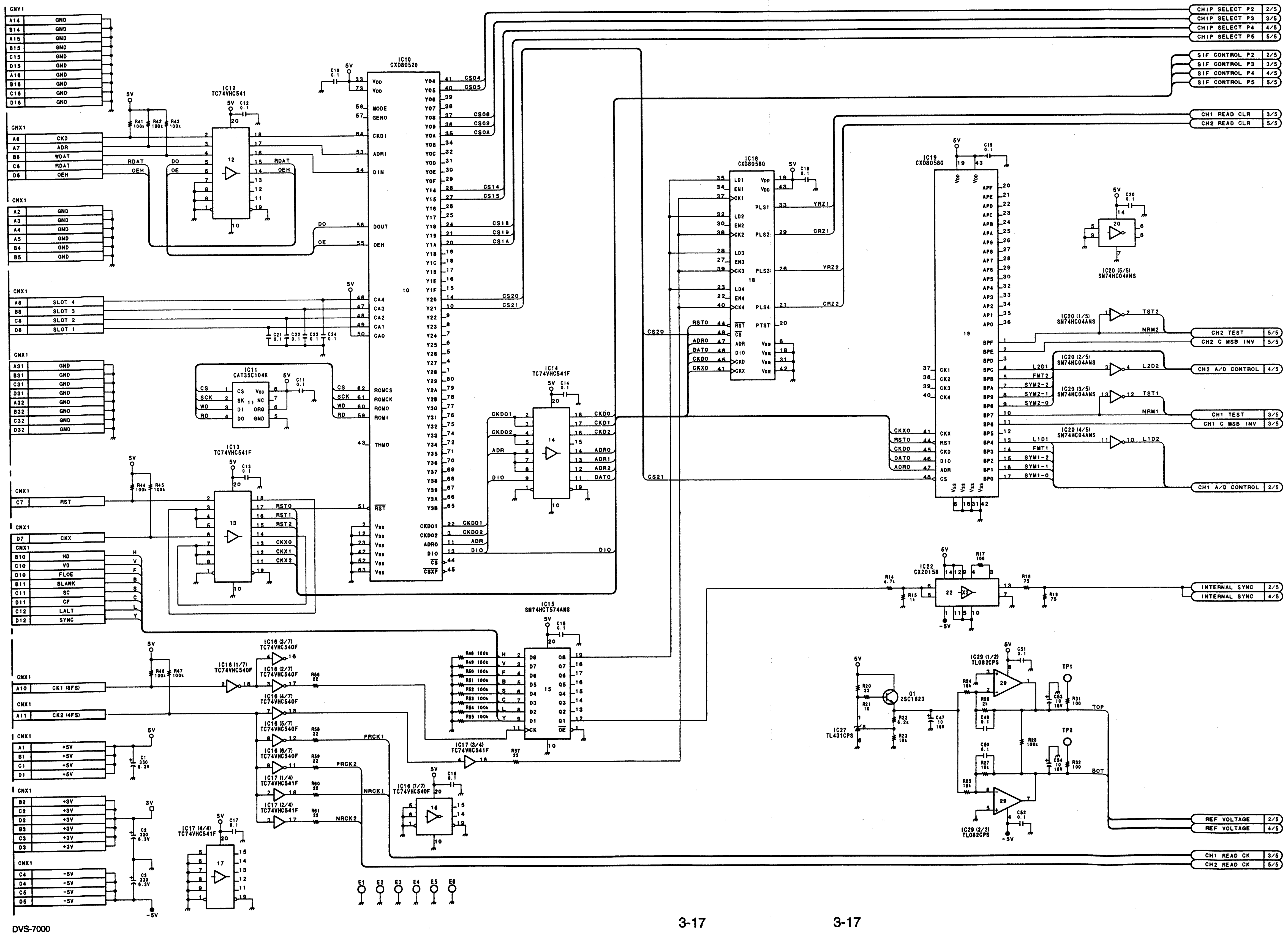
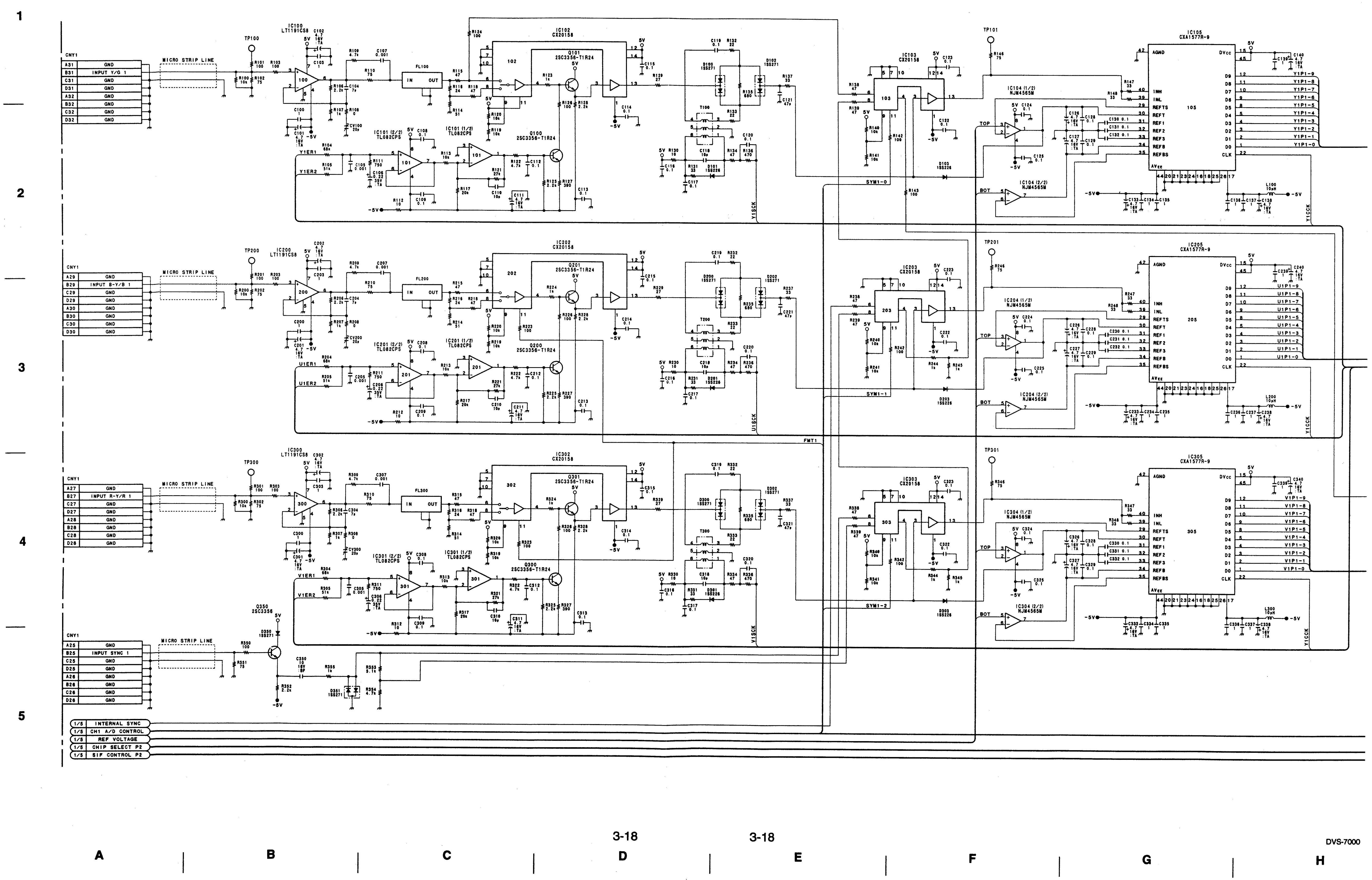
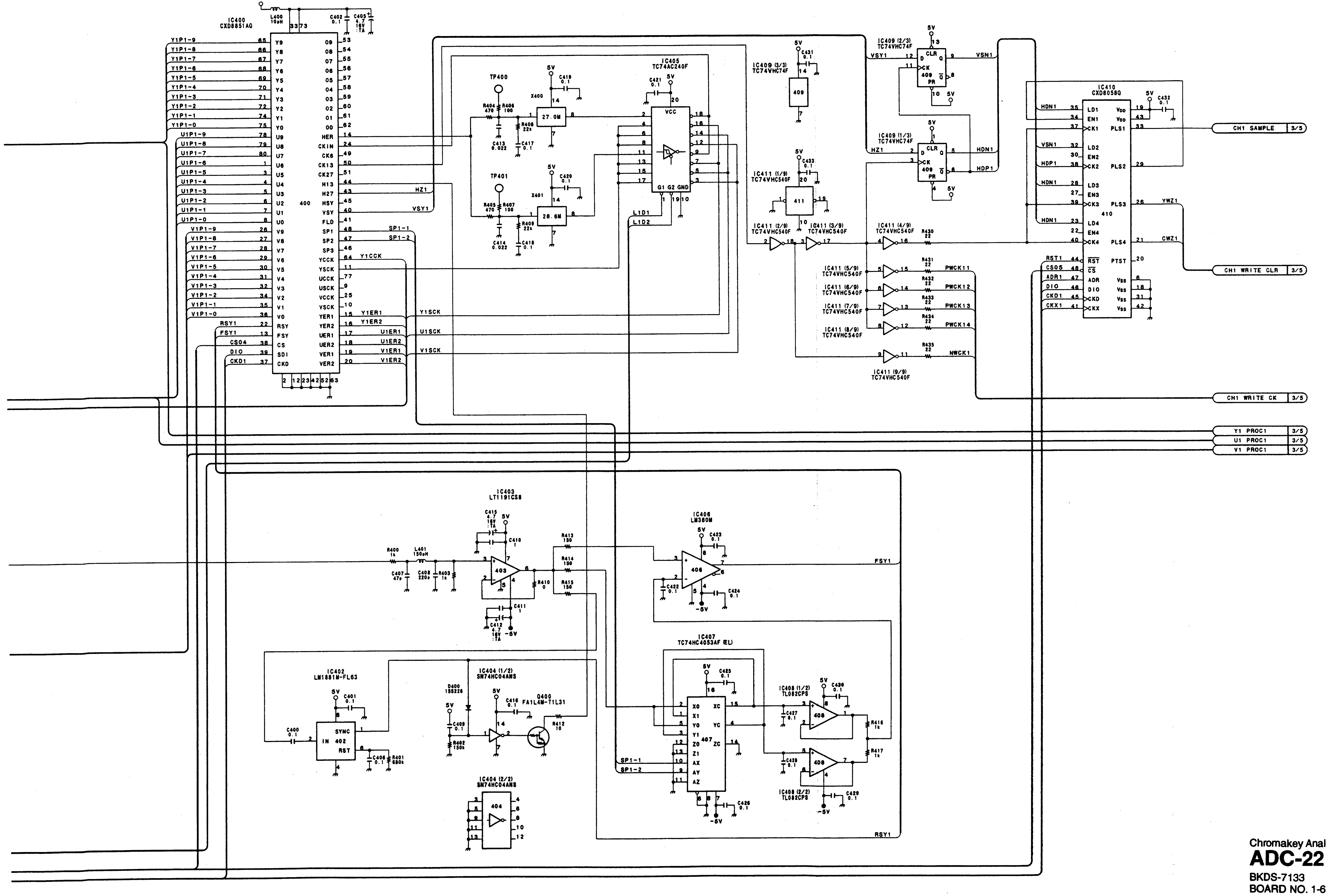
BKDS-7133 (SY) : S/N 10001 and Higher


CNY1
CNX1
GND
CKD
ADR
WDAT
RDAT
OEH
SLOT 4
SLOT 3
SLOT 2
SLOT 1
RST
CKX
HD
VD
FLOE
BLANK
SC
CF
LALT
SYNC
CK1 (8FS)
CK2 (4FS)
+5V
+3V
-5V
IC10 CXD8052Q
IC11 CAT35C104K
IC12 TC74VHC541
IC13 TC74VHC541F
IC14 TC74VHC541F
IC15 SN74HCT574ANS
IC16 (1/7) TC74VHC540F
IC16 (2/7) TC74VHC540F
IC16 (3/7) TC74VHC540F
IC16 (4/7) TC74VHC540F
IC16 (5/7) TC74VHC540F
IC16 (6/7) TC74VHC540F
IC16 (7/7) TC74VHC540F
IC17 (1/4) TC74VHC541F
IC17 (2/4) TC74VHC541F
IC17 (3/4) TC74VHC541F
IC17 (4/4) TC74VHC541F
IC18 CXD8058Q
IC19 CXD8058Q
IC20 (1/5) SN74HC04ANS
IC20 (2/5) SN74HC04ANS
IC20 (3/5) SN74HC04ANS
IC20 (4/5) SN74HC04ANS
IC20 (5/5) SN74HC04ANS
IC22 CX20158
IC27 TL431CPS
IC29 (1/2) TL082CPS
IC29 (2/2) TL082CPS
Q1 2SC1623
TP1
TP2
TOP
BOT
PRCK1
PRCK2
NRCK1
NRCK2
CS20
CS21
DIO
E1
E2
E3
E4
E5
E6
CHIP SELECT P2 2/5
CHIP SELECT P3 3/5
CHIP SELECT P4 4/5
CHIP SELECT P5 5/5
SIF CONTROL P2 2/5
SIF CONTROL P3 3/5
SIF CONTROL P4 4/5
SIF CONTROL P5 5/5
CH1 READ CLR 3/5
CH2 READ CLR 5/5
CH2 TEST 5/5
CH2 C MSB INV 5/5
CH2 A/D CONTROL 4/5
CH1 TEST 3/5
CH1 C MSB INV 3/5
CH1 A/D CONTROL 2/5
INTERNAL SYNC 2/5
INTERNAL SYNC 4/5
REF VOLTAGE 2/5
REF VOLTAGE 4/5
CH1 READ CK 3/5
CH2 READ CK 5/5
A
B
C
D
E
F
G
H
1
2
3
4
5

Chromakey Analog Component Input Board
ADC-22 (1/5)
BKDS-7133
BOARD NO. 1-658-419-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC22

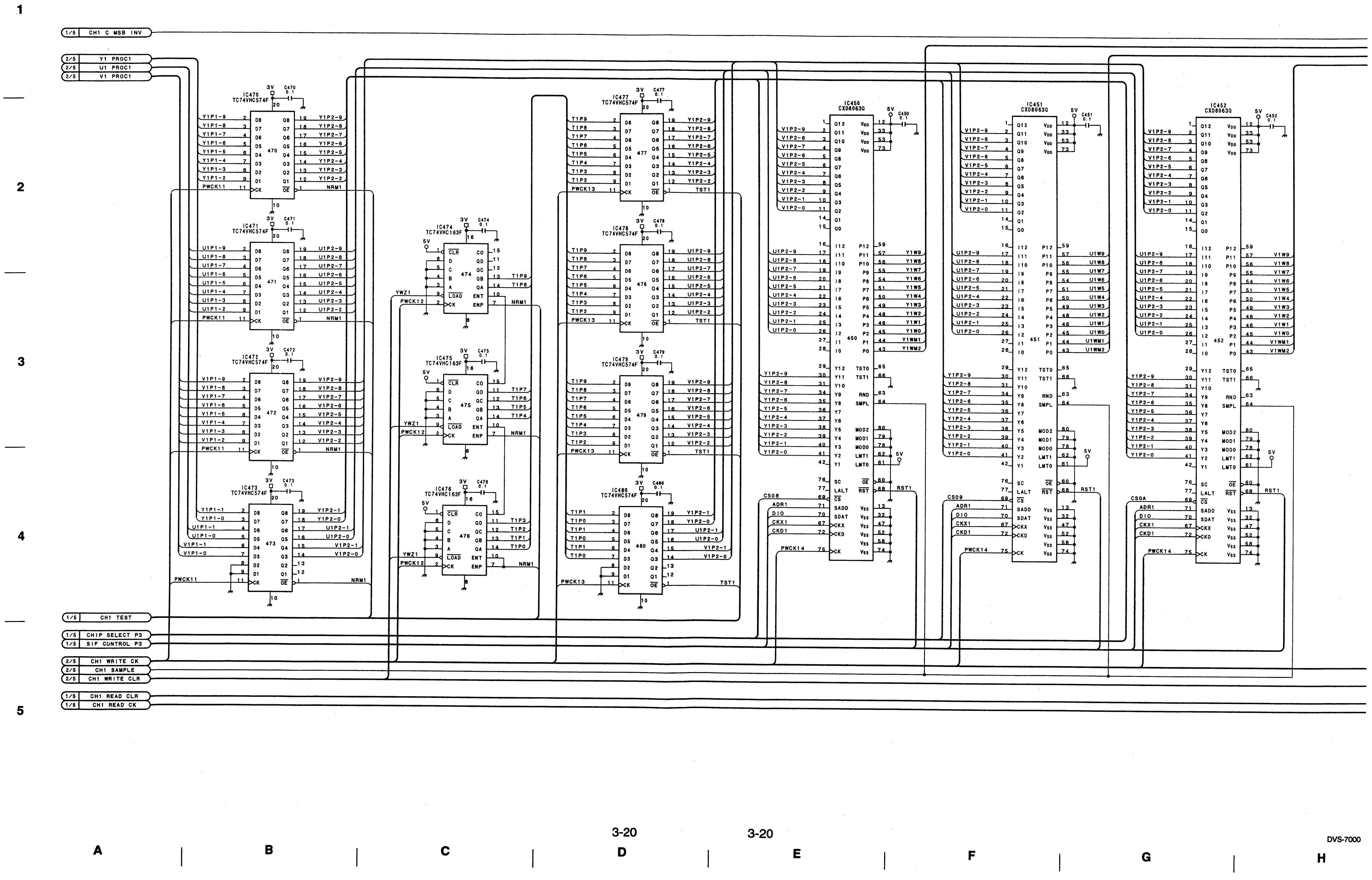
BKDS-7133 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CNY1
A31 GND
B31 INPUT Y/G 1
C31 GND
D31 GND
A32 GND
B32 GND
C32 GND
D32 GND
A29 GND
B29 INPUT B-Y/B 1
C29 GND
D29 GND
A30 GND
B30 GND
C30 GND
D30 GND
A27 GND
B27 INPUT R-Y/R 1
C27 GND
D27 GND
A28 GND
B28 GND
C28 GND
D28 GND
A25 GND
B25 INPUT SYNC 1
C25 GND
D25 GND
A26 GND
B26 GND
C26 GND
D26 GND
MICRO STRIP LINE
TP100
TP200
TP300
IC100 LT1191CS8
IC200 LT1191CS8
IC300 LT1191CS8
FL100
FL200
FL300
IN OUT
IC101 (1/2) TL082CPS
IC101 (2/2) TL082CPS
IC201 (1/2) TL082CPS
IC201 (2/2) TL082CPS
IC301 (1/2) TL082CPS
IC301 (2/2) TL082CPS
IC102 CX20158
IC202 CX20158
IC302 CX20158
Q101 2SC3356-T1R24
Q100 2SC3356-T1R24
Q201 2SC3356-T1R24
Q200 2SC3356-T1R24
Q301 2SC3356-T1R24
Q300 2SC3356-T1R24
Q350 2SC3356
D350 1SS271
D351 1SS271
Y1ER1
Y1ER2
U1ER1
U1ER2
V1ER1
V1ER2
T100
T200
T300
D100 1SS271
D102 1SS271
D101 1SS226
D103 1SS226
D200 1SS271
D202 1SS271
D201 1SS226
D203 1SS226
D300 1SS271
D302 1SS271
D301 1SS226
D303 1SS226
Y1SCK
U1SCK
V1SCK
FMT1
IC103 CX20158
IC203 CX20158
IC303 CX20158
SYM1-0
SYM1-1
SYM1-2
TP101
TP201
TP301
IC104 (1/2) NJM4565M
IC104 (2/2) NJM4565M
IC204 (1/2) NJM4565M
IC204 (2/2) NJM4565M
IC304 (1/2) NJM4565M
IC304 (2/2) NJM4565M
TOP
BOT
IC105 CXA1577R-9
IC205 CXA1577R-9
IC305 CXA1577R-9
AGND
DVcc
INH
INL
REFTS
REFT
REF1
REF2
REF3
REFB
REFBS
AVEE
D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
CLK
L100 10μH
L200 10μH
L300 10μH
Y1P1-9
Y1P1-8
Y1P1-7
Y1P1-6
Y1P1-5
Y1P1-4
Y1P1-3
Y1P1-2
Y1P1-1
Y1P1-0
U1P1-9
U1P1-8
U1P1-7
U1P1-6
U1P1-5
U1P1-4
U1P1-3
U1P1-2
U1P1-1
U1P1-0
V1P1-9
V1P1-8
V1P1-7
V1P1-6
V1P1-5
V1P1-4
V1P1-3
V1P1-2
V1P1-1
V1P1-0
5V
-5V
1/5 INTERNAL SYNC
1/5 CH1 A/D CONTROL
1/5 REF VOLTAGE
1/5 CHIP SELECT P2
1/5 SIF CONTROL P2


5V
L400 10µH
C402 0.1
C405 4.7 16V :TA
IC400 CXD8851AQ
400
Y1P1-9
Y1P1-8
Y1P1-7
Y1P1-6
Y1P1-5
Y1P1-4
Y1P1-3
Y1P1-2
Y1P1-1
Y1P1-0
U1P1-9
U1P1-8
U1P1-7
U1P1-6
U1P1-5
U1P1-4
U1P1-3
U1P1-2
U1P1-1
U1P1-0
V1P1-9
V1P1-8
V1P1-7
V1P1-6
V1P1-5
V1P1-4
V1P1-3
V1P1-2
V1P1-1
V1P1-0
RSY1
FSY1
CS04
DIO
CKD1
HER
CKIN
CK6
CK13
CK27
H13
H27
HSY
VSY
FLD
SP1
SP2
SP3
YCCK
YSCK
UCCK
USCK
VCCK
VSCK
YER1
YER2
UER1
UER2
VER1
VER2
HZ1
VSY1
SP1-1
SP1-2
Y1CCK
Y1ER1
Y1ER2
U1ER1
U1ER2
V1ER1
V1ER2
Y1SCK
U1SCK
V1SCK
TP400
TP401
R404 470
R406 100
R408 22k
C413 0.022
C417 0.1
X400
27.0M
C419 0.1
R405 470
R407 100
R409 22k
C414 0.022
C418 0.1
X401
28.6M
C420 0.1
IC405 TC74AC240F
C421 0.1
VCC
G1 G2 GND
L1D1
L1D2
IC409 (3/3) TC74VHC74F
C431 0.1
409
IC409 (2/3) TC74VHC74F
IC409 (1/3) TC74VHC74F
CLR
PR
VSN1
HDN1
HDP1
IC411 (1/9) TC74VHC540F
C433 0.1
411
IC411 (2/9) TC74VHC540F
IC411 (3/9) TC74VHC540F
IC411 (4/9) TC74VHC540F
IC411 (5/9) TC74VHC540F
IC411 (6/9) TC74VHC540F
IC411 (7/9) TC74VHC540F
IC411 (8/9) TC74VHC540F
IC411 (9/9) TC74VHC540F
R430 22
R431 22
R432 22
R433 22
R434 22
R435 22
PWCK11
PWCK12
PWCK13
PWCK14
NWCK1
IC410 CXD8058Q
410
C432 0.1
LD1
EN1
CK1
LD2
EN2
CK2
LD3
EN3
CK3
LD4
EN4
CK4
RST
CS
ADR
DIO
CKD
CKX
VDD
PLS1
PLS2
PLS3
PLS4
PTST
VSS
RST1
CS05
ADR1
DIO
CKD1
CKX1
YWZ1
CWZ1
CH1 SAMPLE 3/5
CH1 WRITE CLR 3/5
CH1 WRITE CK 3/5
Y1 PROC1 3/5
U1 PROC1 3/5
V1 PROC1 3/5
IC403 LT1191CS8
403
C415 4.7 16V :TA
C410 1
R400 1k
L401 150µH
C407 47p
C408 220p
R403 1k
R410 0
C411 1
C412 4.7 16V :TA
-5V
R413 150
R414 150
R415 150
IC406 LM360M
406
C423 0.1
C422 0.1
C424 0.1
FSY1
IC402 LM1881M-FL63
402
SYNC
IN
RST
C400 0.1
C401 0.1
C406 0.1
R401 680k
D400 1SS226
C409 0.1
R402 150k
IC404 (1/2) SN74HC04ANS
C416 0.1
Q400 FA1L4M-T1L31
R412 10
IC404 (2/2) SN74HC04ANS
404
IC407 TC74HC4053AF (EL)
407
C425 0.1
X0
X1
Y0
Y1
Z0
Z1
AX
AY
AZ
XC
YC
ZC
C426 0.1
IC408 (1/2) TL082CPS
IC408 (2/2) TL082CPS
408
C427 0.1
C428 0.1
C429 0.1
C430 0.1
R416 1k
R417 1k
RSY1

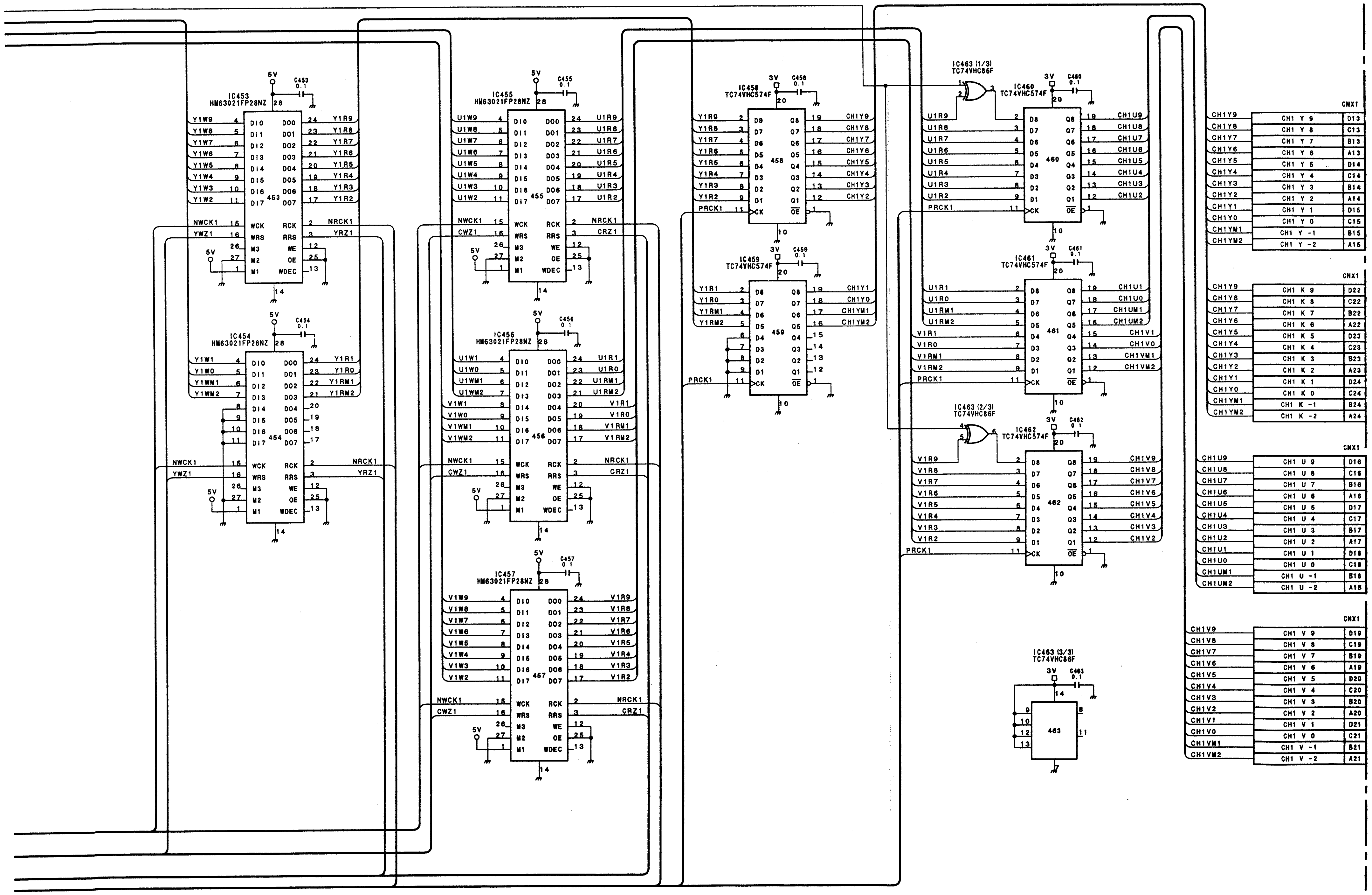
Chromakey Analog Component Input Board
ADC-22 (2/5)
BKDS-7133
BOARD NO. 1-658-419-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC22

BKDS-7133 (SY) : S/N 10001 and Higher



1
2
3
4
5
A
B
C
D
E
F
G
H
1/5 CH1 C MSB INV
2/5 Y1 PROC1
2/5 U1 PROC1
2/5 V1 PROC1
IC470 TC74VHC574F
IC471 TC74VHC574F
IC472 TC74VHC574F
IC473 TC74VHC574F
IC474 TC74VHC163F
IC475 TC74VHC163F
IC476 TC74VHC163F
IC477 TC74VHC574F
IC478 TC74VHC574F
IC479 TC74VHC574F
IC480 TC74VHC574F
IC450 CXD8063Q
IC451 CXD8063Q
IC452 CXD8063Q
3V
5V
C470 0.1
C471 0.1
C472 0.1
C473 0.1
C474 0.1
C475 0.1
C476 0.1
C477 0.1
C478 0.1
C479 0.1
C480 0.1
C450 0.1
C451 0.1
C452 0.1
PWCK11
PWCK12
PWCK13
PWCK14
YWZ1
NRM1
TST1
RST1
CS08
CS09
CS0A
ADR1
DIO
CKX1
CKD1
Y1W9 … Y1W0, Y1WM1, Y1WM2
U1W9 … U1W0, U1WM1, U1WM2
V1W9 … V1W0, V1WM1, V1WM2
1/5 CH1 TEST
1/5 CHIP SELECT P3
1/5 SIF CONTROL P3
2/5 CH1 WRITE CK
2/5 CH1 SAMPLE
2/5 CH1 WRITE CLR
1/5 CH1 READ CLR
1/5 CH1 READ CK

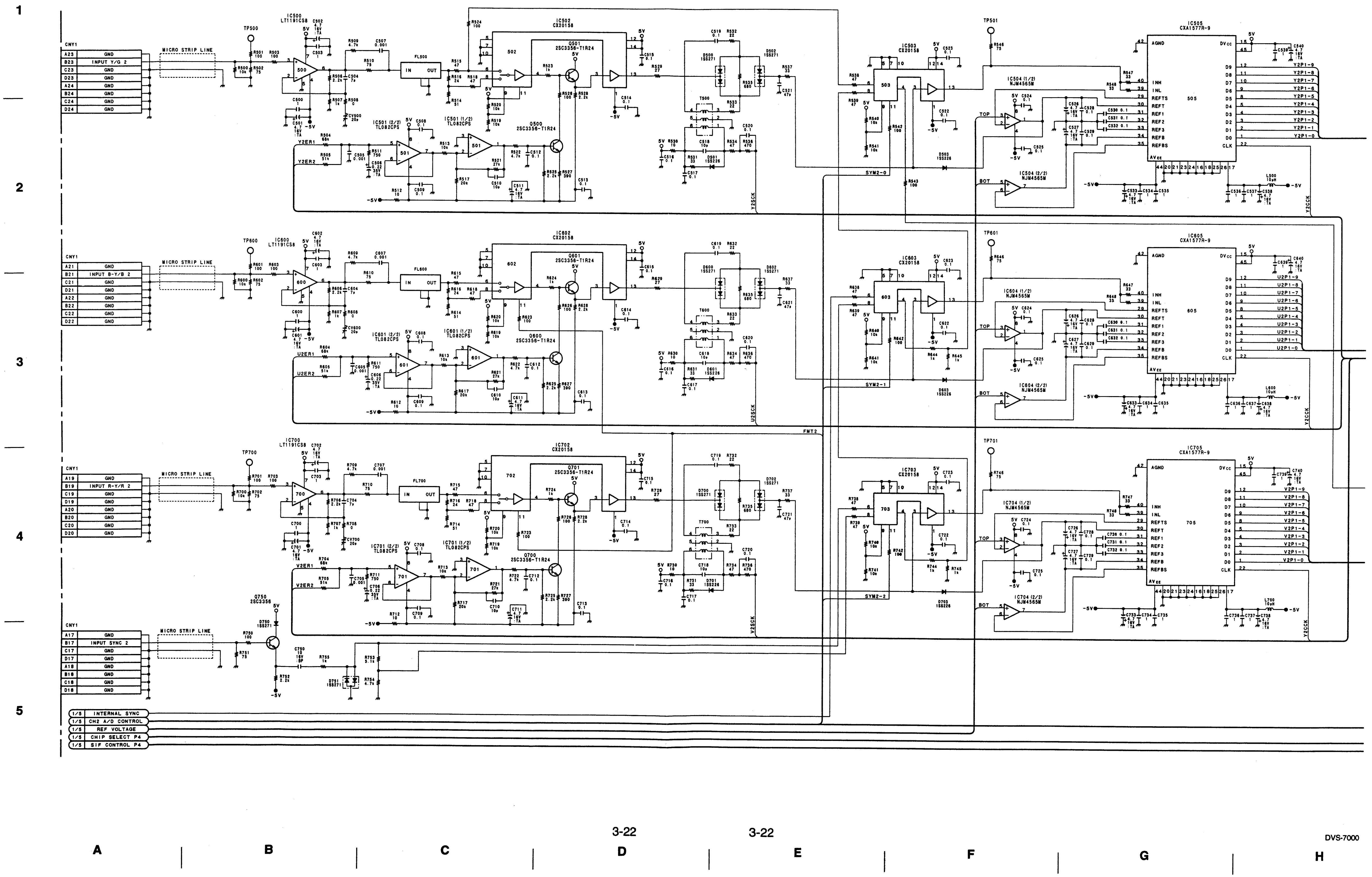
ADC-22 (3/5) Chromakey Analog Component Input Board


IC453 HM63021FP28NZ
IC454 HM63021FP28NZ
IC455 HM63021FP28NZ
IC456 HM63021FP28NZ
IC457 HM63021FP28NZ
IC458 TC74VHC574F
IC459 TC74VHC574F
IC460 TC74VHC574F
IC461 TC74VHC574F
IC462 TC74VHC574F
IC463 (1/3) TC74VHC86F
IC463 (2/3) TC74VHC86F
IC463 (3/3) TC74VHC86F
C453 0.1
C454 0.1
C455 0.1
C456 0.1
C457 0.1
C458 0.1
C459 0.1
C460 0.1
C461 0.1
C462 0.1
C463 0.1
5V
3V
NWCK1
YWZ1
CWZ1
NRCK1
YRZ1
CRZ1
PRCK1
CNX1

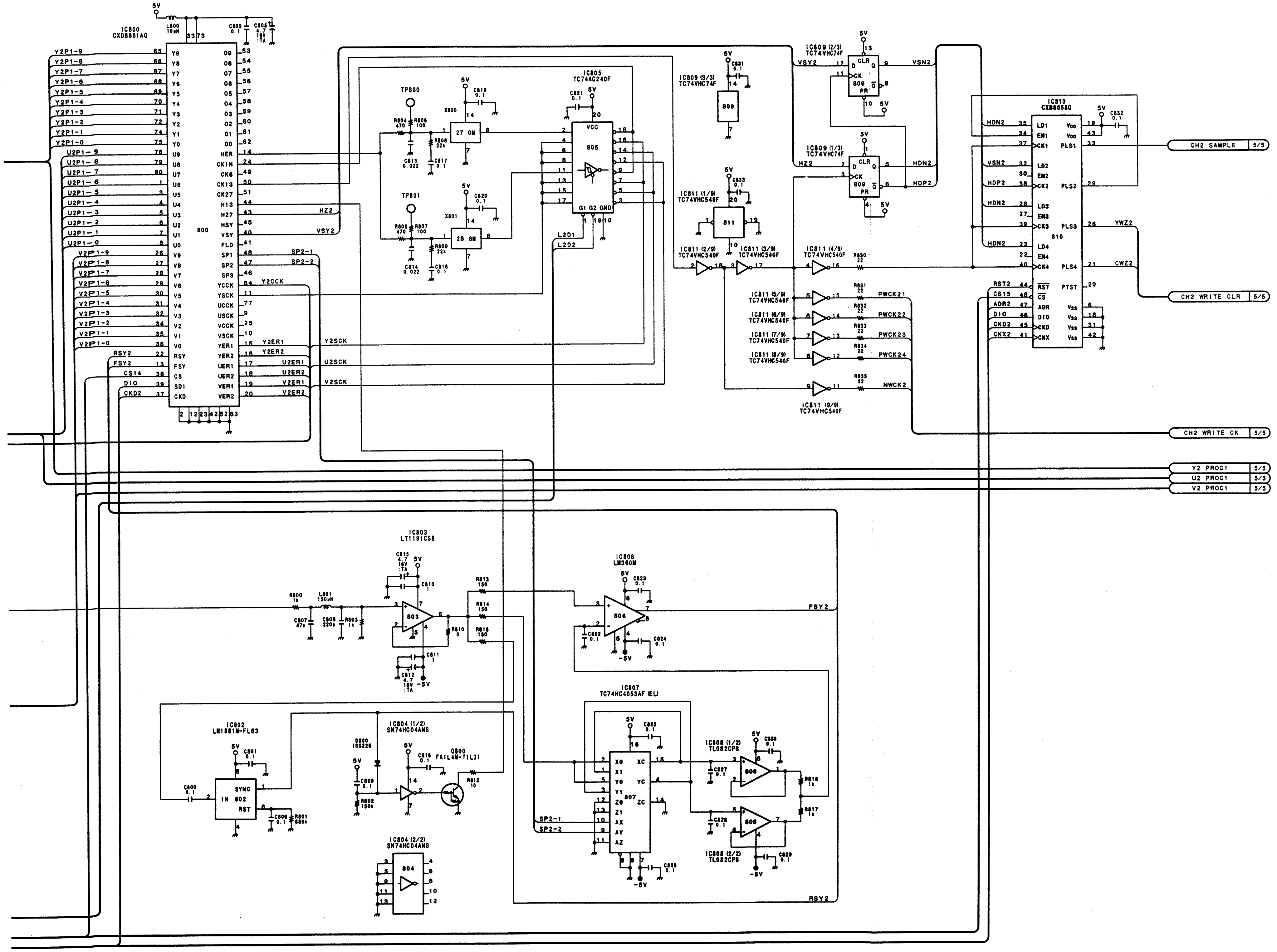
Chromakey Analog Component Input Board
ADC-22 (3/5)
BKDS-7133
BOARD NO. 1-658-419-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC22

ADC-22 (4/5) Chromakey Analog Component Input Board

BKDS-7133 (SY) : S/N 10001 and Higher

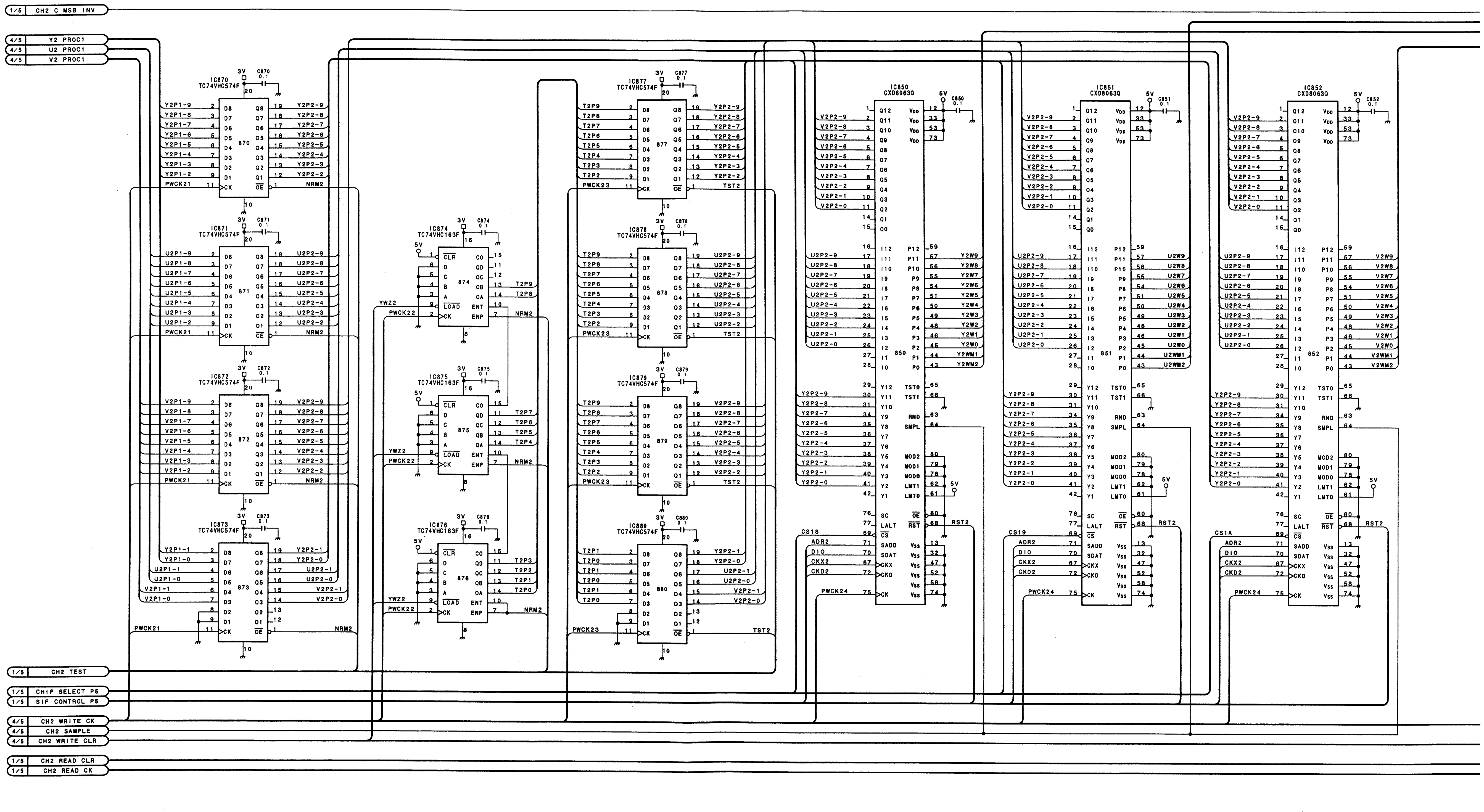

1
2
3
4
5
A
B
C
D
E
F
G
H
CNY1
A23 GND
B23 INPUT Y/G 2
C23 GND
D23 GND
A24 GND
B24 GND
C24 GND
D24 GND
A21 GND
B21 INPUT B-Y/B 2
C21 GND
D21 GND
A22 GND
B22 GND
C22 GND
D22 GND
A19 GND
B19 INPUT R-Y/R 2
C19 GND
D19 GND
A20 GND
B20 GND
C20 GND
D20 GND
A17 GND
B17 INPUT SYNC 2
C17 GND
D17 GND
A18 GND
B18 GND
C18 GND
D18 GND
MICRO STRIP LINE
TP500
TP600
TP700
IC500 LT1191CS8
IC600 LT1191CS8
IC700 LT1191CS8
FL500
FL600
FL700
IN OUT
IC502 CX20158
IC602 CX20158
IC702 CX20158
Q501 2SC3356-T1R24
Q601 2SC3356-T1R24
Q701 2SC3356-T1R24
Q500 2SC3356-T1R24
Q600 2SC3356-T1R24
Q700 2SC3356-T1R24
IC501 (1/2) TL082CPS
IC501 (2/2) TL082CPS
IC601 (1/2) TL082CPS
IC601 (2/2) TL082CPS
IC701 (1/2) TL082CPS
IC701 (2/2) TL082CPS
Y2ER1
Y2ER2
U2ER1
U2ER2
V2ER1
V2ER2
T500
T600
T700
D500 1SS271
D502 1SS271
D501 1SS226
D600 1SS271
D602 1SS271
D601 1SS226
D700 1SS271
D702 1SS271
D701 1SS226
Q750 2SC3356
D750 1SS271
D751 1SS271
Y2SCK
U2SCK
V2SCK
FMT2
IC503 CX20158
IC603 CX20158
IC703 CX20158
SYM2-0
SYM2-1
SYM2-2
D503 1SS226
D603 1SS226
D703 1SS226
TP501
TP601
TP701
IC504 (1/2) NJM4565M
IC504 (2/2) NJM4565M
IC604 (1/2) NJM4565M
IC604 (2/2) NJM4565M
IC704 (1/2) NJM4565M
IC704 (2/2) NJM4565M
TOP
BOT
IC505 CXA1577R-9
IC605 CXA1577R-9
IC705 CXA1577R-9
AGND
DVcc
INH
INL
REFTS
REFT
REF1
REF2
REF3
REFB
REFBS
AVEE
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
CLK
Y2P1-9
Y2P1-8
Y2P1-7
Y2P1-6
Y2P1-5
Y2P1-4
Y2P1-3
Y2P1-2
Y2P1-1
Y2P1-0
U2P1-9
U2P1-8
U2P1-7
U2P1-6
U2P1-5
U2P1-4
U2P1-3
U2P1-2
U2P1-1
U2P1-0
V2P1-9
V2P1-8
V2P1-7
V2P1-6
V2P1-5
V2P1-4
V2P1-3
V2P1-2
V2P1-1
V2P1-0
L500 10µH
L600 10µH
L700 10µH
5V
-5V
1/5 INTERNAL SYNC
1/5 CH2 A/D CONTROL
1/5 REF VOLTAGE
1/5 CHIP SELECT P4
1/5 SIF CONTROL P4

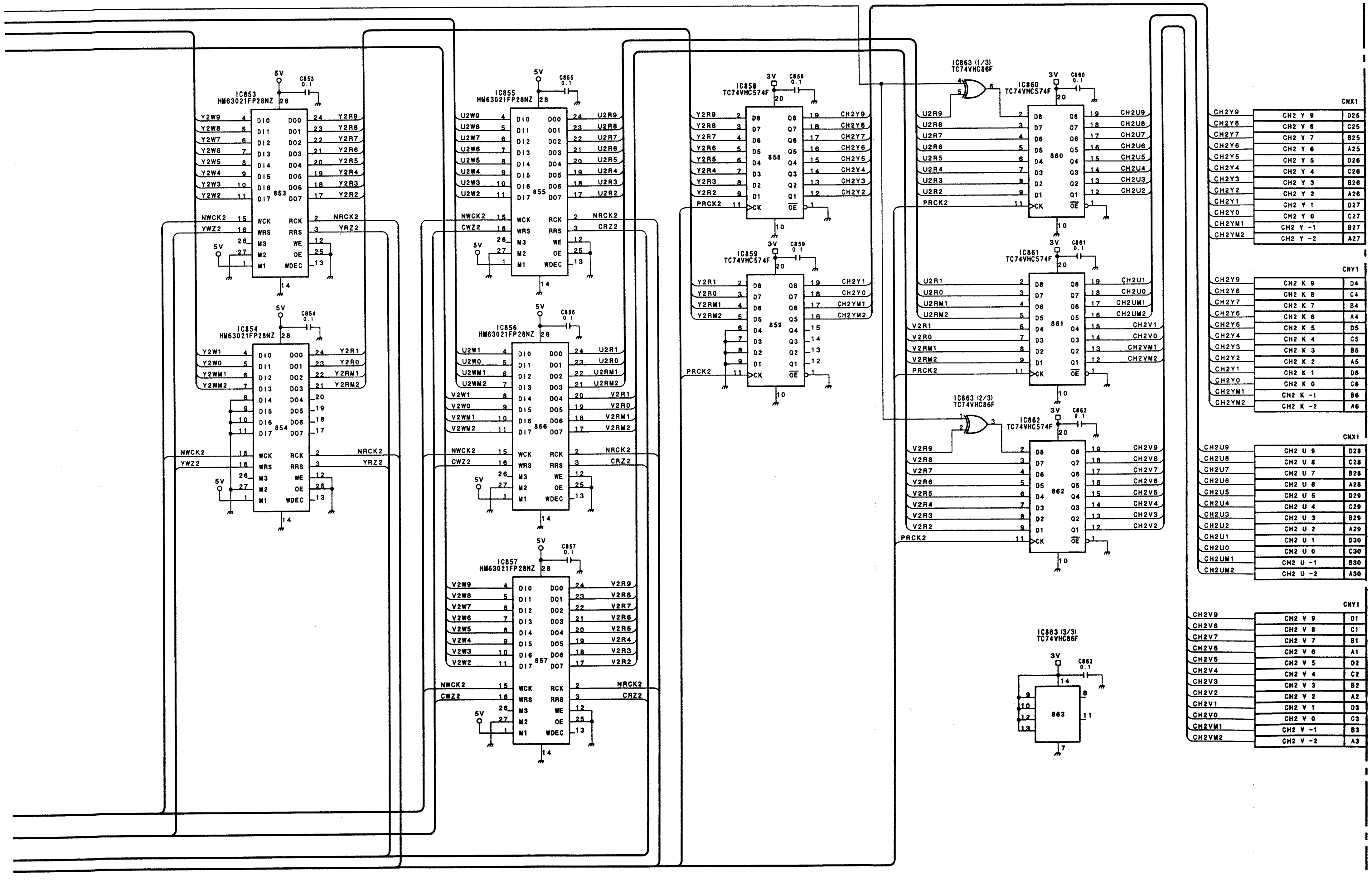
3-22


IC800 CXD8851AQ
IC805 TC74AC240F
IC809 TC74VHC74F
IC811 TC74VHC540F
IC810 CXD8658Q
IC803 LT1191CS8
IC806 LM360M
IC807 TC74HC4053AF (EL)
IC808 TL082CPS
IC802 LM1881M-FL63
IC804 SN74HC04ANS
Q800 FA1L4M-T1L31
D800 1SS226
X800 27.0M
X801 28.6M
TP800
TP801
5V
-5V
HZ2
VSY2
SP2-1
SP2-2
Y2SCK
U2SCK
V2SCK
Y2CCK
VSN2
HDN2
HDP2
PWCK21
PWCK22
PWCK23
PWCK24
NWCK2
YWZ2
CWZ2
RST2
CS15
ADR2
DIO
CKD2
CKX2
FSY2
RSY2
CH2 SAMPLE 5/5
CH2 WRITE CLR 5/5
CH2 WRITE CK 5/5
Y2 PROC1 5/5
U2 PROC1 5/5
V2 PROC1 5/5
1
2
3
4
5
I
J
K
L
M
N
O
P

Chromakey Analog Component Input Board
ADC-22 (4/5)
BKDS-7133
BOARD NO. 1-658-419-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC22

BKDS-7133 (SY) : S/N 10001 and Higher


1/5 CH2 C MSB INV
4/5 Y2 PROC1
4/5 U2 PROC1
4/5 V2 PROC1
IC870 TC74VHC574F
IC871 TC74VHC574F
IC872 TC74VHC574F
IC873 TC74VHC574F
IC874 TC74VHC163F
IC875 TC74VHC163F
IC876 TC74VHC163F
IC877 TC74VHC574F
IC878 TC74VHC574F
IC879 TC74VHC574F
IC880 TC74VHC574F
IC850 CXD8063Q
IC851 CXD8063Q
IC852 CXD8063Q
C870 0.1
C871 0.1
C872 0.1
C873 0.1
C874 0.1
C875 0.1
C876 0.1
C877 0.1
C878 0.1
C879 0.1
C880 0.1
C850 0.1
C851 0.1
C852 0.1
3V
5V
PWCK21
PWCK22
PWCK23
PWCK24
NRM2
TST2
RST2
YWZ2
CS18
CS19
CS1A
ADR2
DIO
CKX2
CKD2
1/5 CH2 TEST
1/5 CHIP SELECT P5
1/5 SIF CONTROL P5
4/5 CH2 WRITE CK
4/5 CH2 SAMPLE
4/5 CH2 WRITE CLR
1/5 CH2 READ CLR
1/5 CH2 READ CK


IC853
HM63021FP28NZ
IC854
HM63021FP28NZ
IC855
HM63021FP28NZ
IC856
HM63021FP28NZ
IC857
HM63021FP28NZ
IC858
TC74VHC574F
IC859
TC74VHC574F
IC860
TC74VHC574F
IC861
TC74VHC574F
IC862
TC74VHC574F
IC863 (1/3)
TC74VHC86F
IC863 (2/3)
TC74VHC86F
IC863 (3/3)
TC74VHC86F
CNX1
CNY1
5V
3V
NWCK2
YWZ2
CWZ2
NRCK2
YRZ2
CRZ2
PRCK2

Chromakey Analog Component Input Board
ADC-22 (5/5)
BKDS-7133
BOARD NO. 1-658-419-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ADC22

BKDS-7111 (SY) : S/N 10001 and Higher

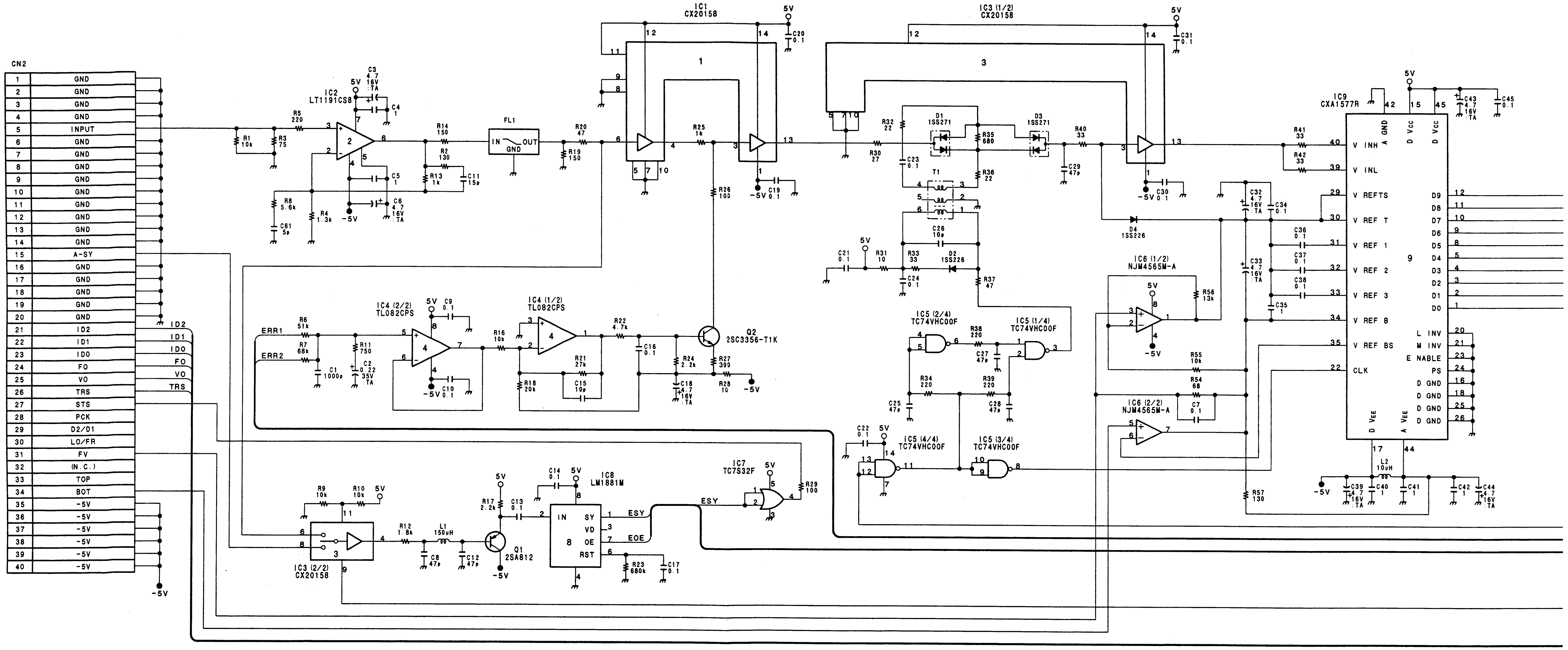
1

2

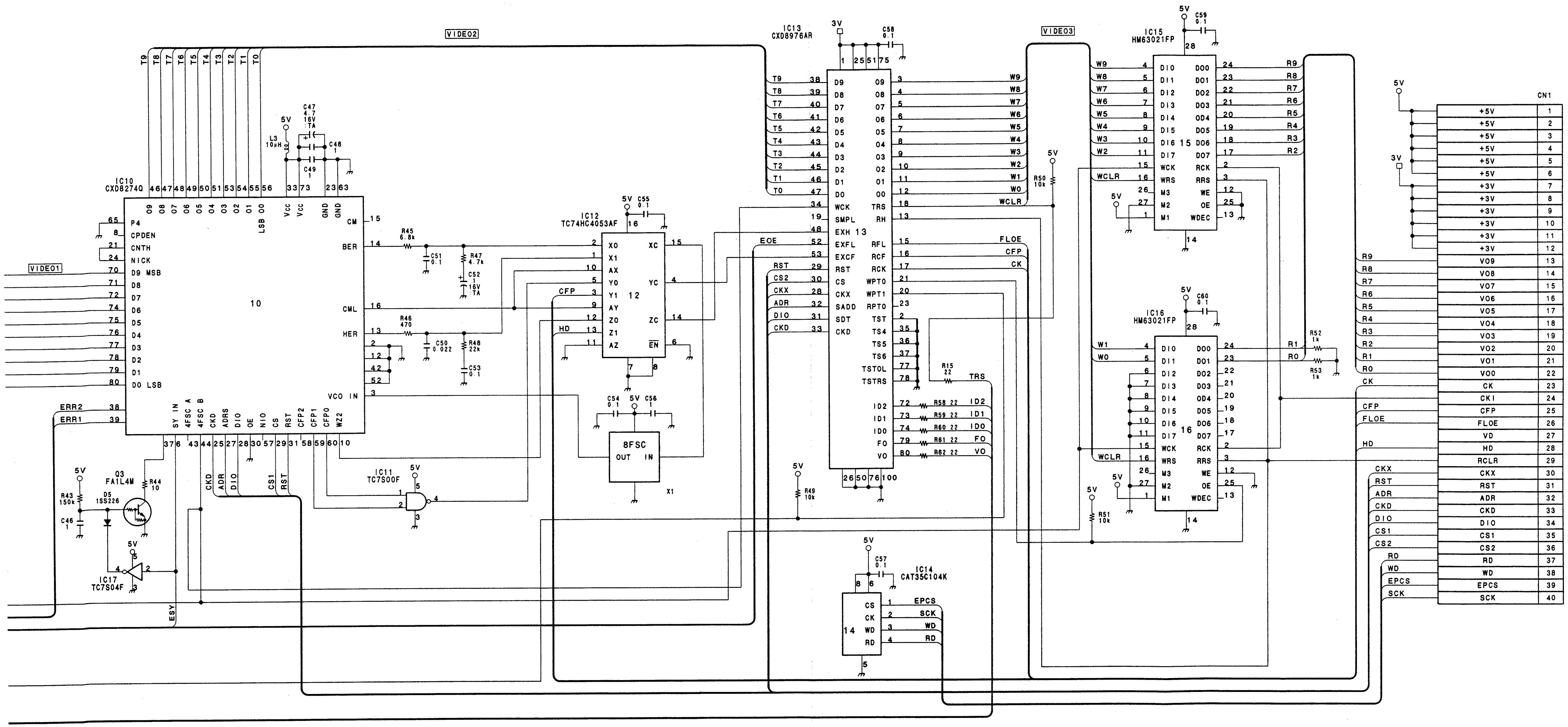
3

4

5


CN2
1 GND
2 GND
3 GND
4 GND
5 INPUT
6 GND
7 GND
8 GND
9 GND
10 GND
11 GND
12 GND
13 GND
14 GND
15 A-SY
16 GND
17 GND
18 GND
19 GND
20 GND
21 ID2
22 ID1
23 ID0
24 FO
25 VO
26 TRS
27 STS
28 PCK
29 D2/D1
30 LO/FR
31 FV
32 (N.C.)
33 TOP
34 BOT
35 -5V
36 -5V
37 -5V
38 -5V
39 -5V
40 -5V
-5V
ID2
ID1
ID0
FO
VO
TRS
IC2
LT1191CS8
5V
C3 4.7 16V :TA
C4 1
R5 220
R1 10k
R3 75
C5 1
C6 4.7 16V :TA
R8 5.6k
C61 5p
R4 1.3k
-5V
R14 150
R2 130
R13 1k
C11 15p
FL1
IN OUT GND
R20 47
R19 150
IC1
CX20158
5V
C20 0.1
R25 1k
R26 100
C19 0.1
-5V
IC3 (1/2)
CX20158
5V
C31 0.1
R32 22
R30 27
C23 0.1
D1 1SS271
R35 680
R36 22
T1
D3 1SS271
R40 33
C29 47p
C30 0.1
-5V
C26 10p
5V
C21 0.1
R31 10
R33 33
D2 1SS226
C24 0.1
R37 47
D4 1SS226
IC6 (1/2)
NJM4565M-A
5V
R56 13k
-5V
R55 10k
R54 68
IC6 (2/2)
NJM4565M-A
C7 0.1
R57 130
C32 4.7 16V :TA
C33 4.7 16V :TA
C34 0.1
C36 0.1
C37 0.1
C38 0.1
C35 1
R41 33
R42 33
IC9
CXA1577R
5V
C43 4.7 16V :TA
C45 0.1
A GND
D Vcc
D Vcc
V INH
V INL
V REFTS
V REF T
V REF 1
V REF 2
V REF 3
V REF B
V REF BS
CLK
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
L INV
M INV
E NABLE
PS
D GND
D GND
D GND
D GND
D Vee
A Vee
L2 10µH
-5V
C39 4.7 16V :TA
C40 1
C41 1
C42 1
C44 4.7 16V :TA
ERR1
ERR2
R6 51k
R7 68k
C1 1000p
R11 750
C2 0.22 35V :TA
IC4 (2/2)
TL082CPS
5V
C9 0.1
C10 0.1
-5V
R16 10k
IC4 (1/2)
TL082CPS
R18 20k
R21 27k
C15 10p
R22 4.7k
C16 0.1
R24 2.2k
C18 4.7 16V :TA
Q2
2SC3356-T1K
R27 390
R28 10
-5V
IC5 (2/4)
TC74VHC00F
R38 220
C27 47p
IC5 (1/4)
TC74VHC00F
R34 220
R39 220
C25 47p
C28 47p
C22 0.1
5V
IC5 (4/4)
TC74VHC00F
IC5 (3/4)
TC74VHC00F
R9 10k
R10 10k
5V
IC3 (2/2)
CX20158
R12 1.8k
L1 150µH
C8 47p
C12 47p
R17 2.2k
C13 0.1
Q1
2SA812
-5V
C14 0.1
5V
IC8
LM1881M
IN SY VD OE RST
ESY
EOE
R23 680k
C17 0.1
IC7
TC7S32F
5V
R29 100
ESY

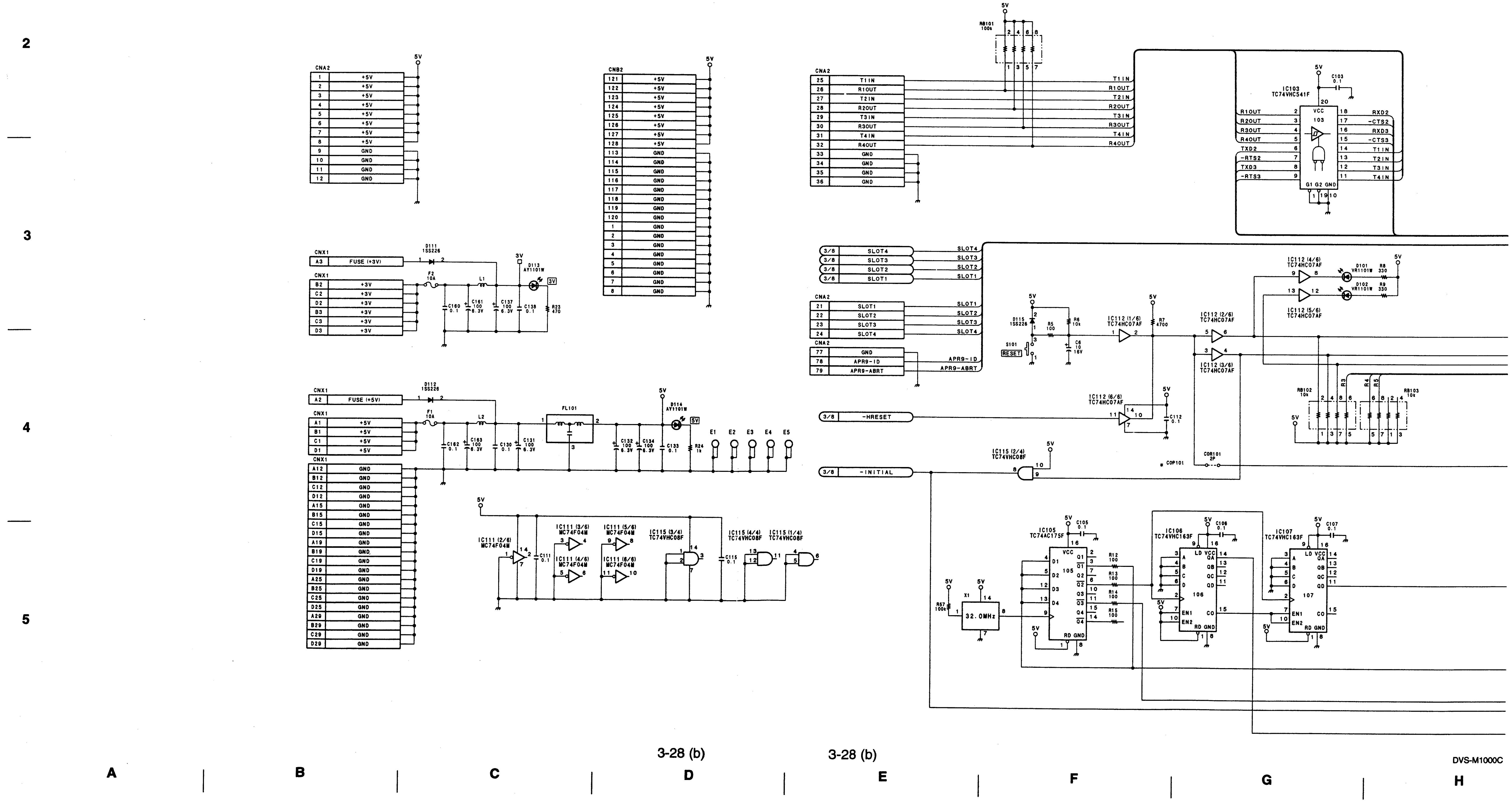
A B C D E F G H


VIDEO1
VIDEO2
VIDEO3
IC10 CXD8274Q
T9 T8 T7 T6 T5 T4 T3 T2 T1 T0
P4 CPDEN CNTH NICK D9 MSB D8 D7 D6 D5 D4 D3 D2 D1 D0 LSB
BER CML HER VCO IN CM
ERR2 ERR1
SY IN 4FSC A 4FSC B CKO ADRS DIO OE NIO CS RST CFP2 CFP1 CFP0 WZ2
L3 10μH
C47 4.7 16V TA
C48 1
C49 1
R45 6.8k
C51 0.1
R47 4.7k
C52 1 16V TA
R46 470
C50 0.022
R48 22k
C53 0.1
IC12 TC74HC4053AF
X0 X1 AX Y0 Y1 AY Z0 Z1 AZ XC YC ZC EN
C54 0.1
C55 0.1
C56 1
8FSC OUT IN
X1
IC11 TC7S00F
Q3 FA1L4M
R43 150k
R44 10
D5 1SS226
C46 1
IC17 TC7S04F
ESY
CKD ADR DIO CS1 RST
IC13 CXD8976AR
C58 0.1
D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 WCK SMPL EXH 13 EXFL EXCF RST CS CKX SADD SDT CKD
O9 O8 O7 O6 O5 O4 O3 O2 O1 O0 TRS RH RFL RCF RCK WPT0 WPT1 RPT0 TST TS4 TS5 TS6 TSTOL TSTRS
ID2 ID1 IDO FO VO
EOE
RST CS2 CKX ADR DIO CKD
R15 22
TRS
R58 22 R59 22 R60 22 R61 22 R62 22
R49 10k
R50 10k
W9 W8 W7 W6 W5 W4 W3 W2 W1 W0 WCLR
FLOE CFP CK
IC14 CAT35C104K
C57 0.1
CS CK WD RD
EPCS SCK WD RD
IC15 HM63021FP
C59 0.1
IC16 HM63021FP
C60 0.1
DI0 DI1 DI2 DI3 DI4 DI5 DI6 DI7 WCK WRS M3 M2 M1
DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7 RCK RRS WE OE WDEC
R9 R8 R7 R6 R5 R4 R3 R2 R1 R0
R52 1k
R53 1k
R51 10k
5V
3V
CN1
1 +5V
2 +5V
3 +5V
4 +5V
5 +5V
6 +5V
7 +3V
8 +3V
9 +3V
10 +3V
11 +3V
12 +3V
13 VO9
14 VO8
15 VO7
16 VO6
17 VO5
18 VO4
19 VO3
20 VO2
21 VO1
22 VO0
23 CK
24 CKI
25 CFP
26 FLOE
27 VD
28 HD
29 RCLR
30 CKX
31 RST
32 ADR
33 CKD
34 DIO
35 CS1
36 CS2
37 RD
38 WD
39 EPCS
40 SCK

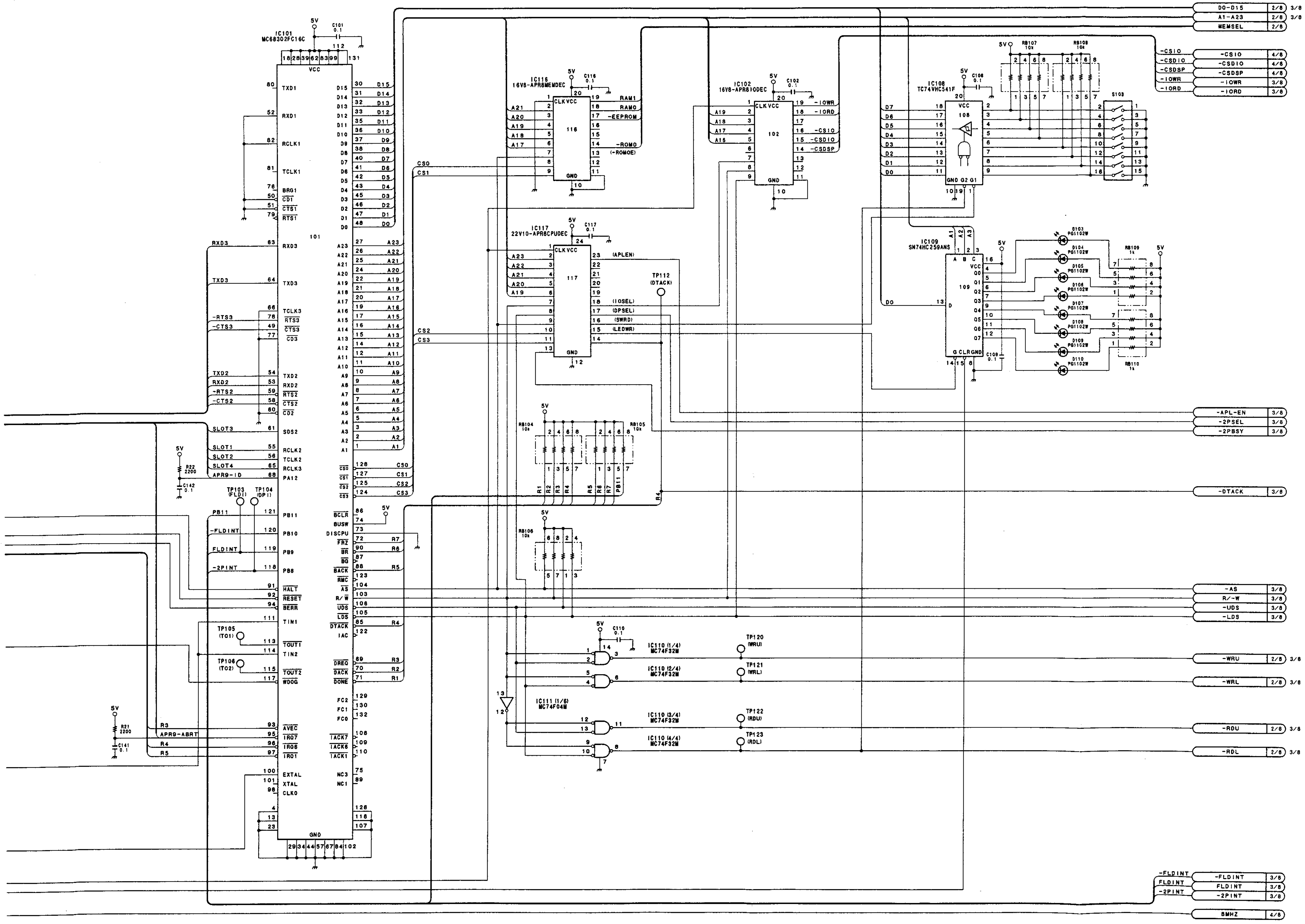
Analog Composite Input Board
ADI-3
BKDS-7111
BOARD NO. 1-658-411-11
LOT NO. 506-
FOR DVS-7000/DMK-7000
B-¥SJX050-ADI3

APR-8 (1/8) Audio Process Board

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CNA2
CNB2
CNX1
FUSE (+3V)
FUSE (+5V)
+5V
+3V
GND
5V
3V
D111 1SS226
D112 1SS226
D113 AY1101W
D114 AY1101W
F1 10A
F2 10A
L1
L2
FL101
E1
E2
E3
E4
E5
T1IN
R1OUT
T2IN
R2OUT
T3IN
R3OUT
T4IN
R4OUT
RB101 100k
IC103 TC74VHC541F
RXD2
-CTS2
RXD3
-CTS3
TXD2
-RTS2
TXD3
-RTS3
SLOT1
SLOT2
SLOT3
SLOT4
APR9-ID
APR9-ABRT
-HRESET
-INITIAL
S101 RESET
D115 1SS226
IC112 (1/6) TC74HC07AF
IC112 (2/6) TC74HC07AF
IC112 (3/6) TC74HC07AF
IC112 (4/6) TC74HC07AF
IC112 (5/6) TC74HC07AF
IC112 (6/6) TC74HC07AF
D101 VR1101W
D102 VR1101W
RB102 10k
RB103 10k
COP101
IC115 (2/4) TC74VHC08F
IC115 (3/4) TC74VHC08F
IC115 (4/4) TC74VHC08F
IC115 (1/4) TC74VHC08F
IC111 (2/6) MC74F04M
IC111 (3/6) MC74F04M
IC111 (4/6) MC74F04M
IC111 (5/6) MC74F04M
IC111 (6/6) MC74F04M
IC105 TC74AC175F
IC106 TC74VHC163F
IC107 TC74VHC163F
X1
32.0MHz
R57 100k

3-28 (b)


IC101 MC68302FC16C
IC116 16V8-APR8MEMDEC
IC117 22V10-APR8CPUDEC
IC102 16V8-APR8IODEC
IC108 TC74VHC541F
IC109 SN74HC259ANS
IC110 (1/4) MC74F32M
IC110 (2/4) MC74F32M
IC110 (3/4) MC74F32M
IC110 (4/4) MC74F32M
IC111 (1/6) MC74F04M
S103
RB107 10k
RB108 10k
RB104 10k
RB105 10k
RB106 10k
RB109 1k
RB110 1k
D103 PG1102W
D104 PG1102W
D105 PG1102W
D106 PG1102W
D107 PG1102W
D108 PG1102W
D109 PG1102W
D110 PG1102W
TP103 (FLD1)
TP104 (DP1)
TP105 (TO1)
TP106 (TO2)
TP112 (DTACK)
TP120 (WRU)
TP121 (WRL)
TP122 (RDU)
TP123 (RDL)
R21 2200
R22 2200
C141 0.1
C142 0.1
5V
D0-D15 2/8 3/8
A1-A23 2/8 3/8
MEMSEL 2/8
-CSIO 4/8
-CSDIO 4/8
-CSDSP 4/8
-IOWR 3/8
-IORD 3/8
-APL-EN 3/8
-2PSEL 3/8
-2PBSY 3/8
-DTACK 3/8
-AS 3/8
R/-W 3/8
-UDS 3/8
-LDS 3/8
-WRU 2/8 3/8
-WRL 2/8 3/8
-RDU 2/8 3/8
-RDL 2/8 3/8
-FLDINT 3/8
FLDINT 3/8
-2PINT 3/8
8MHZ 4/8

Audio Process Board
APR-8 (1/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

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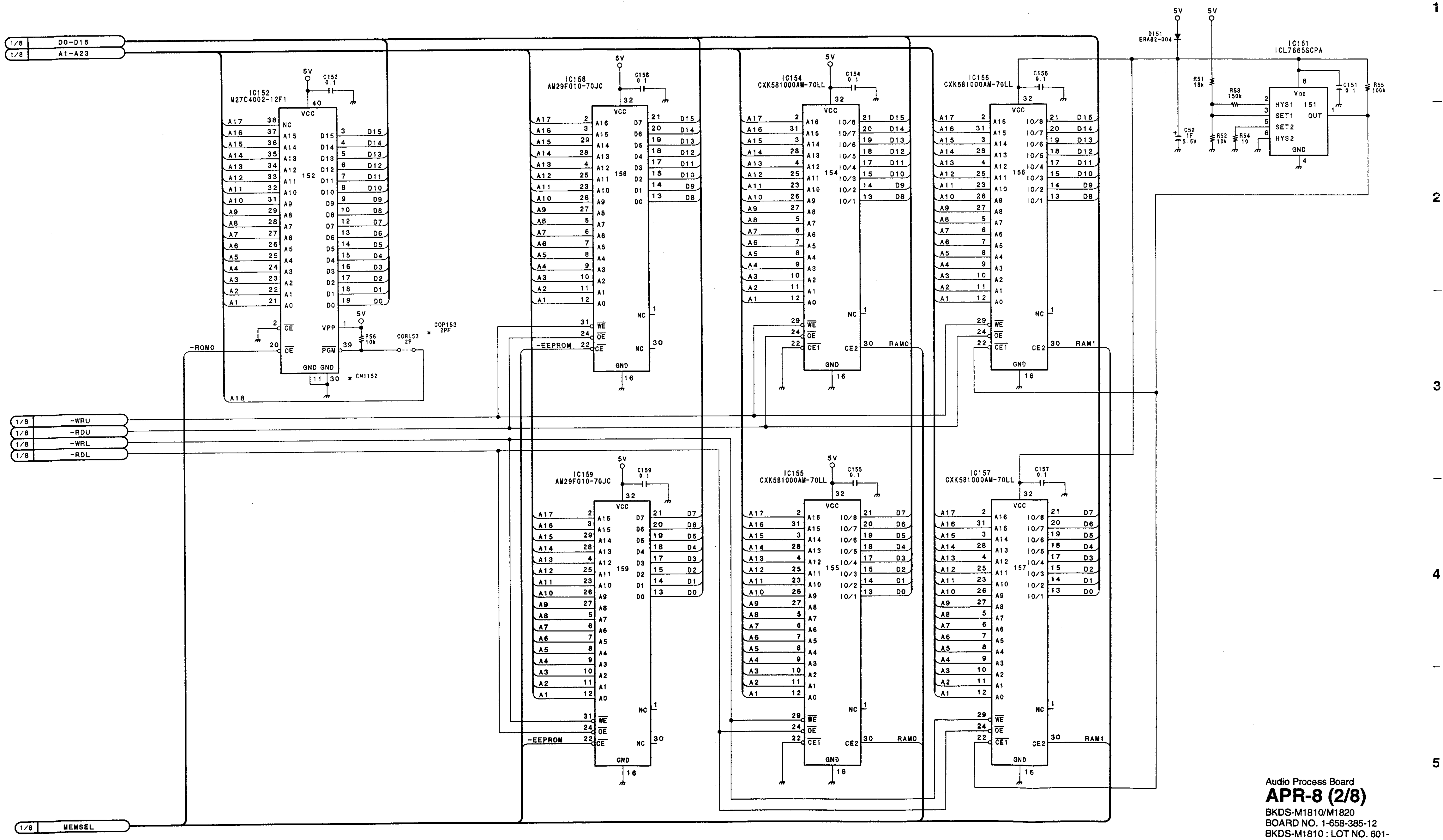
BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

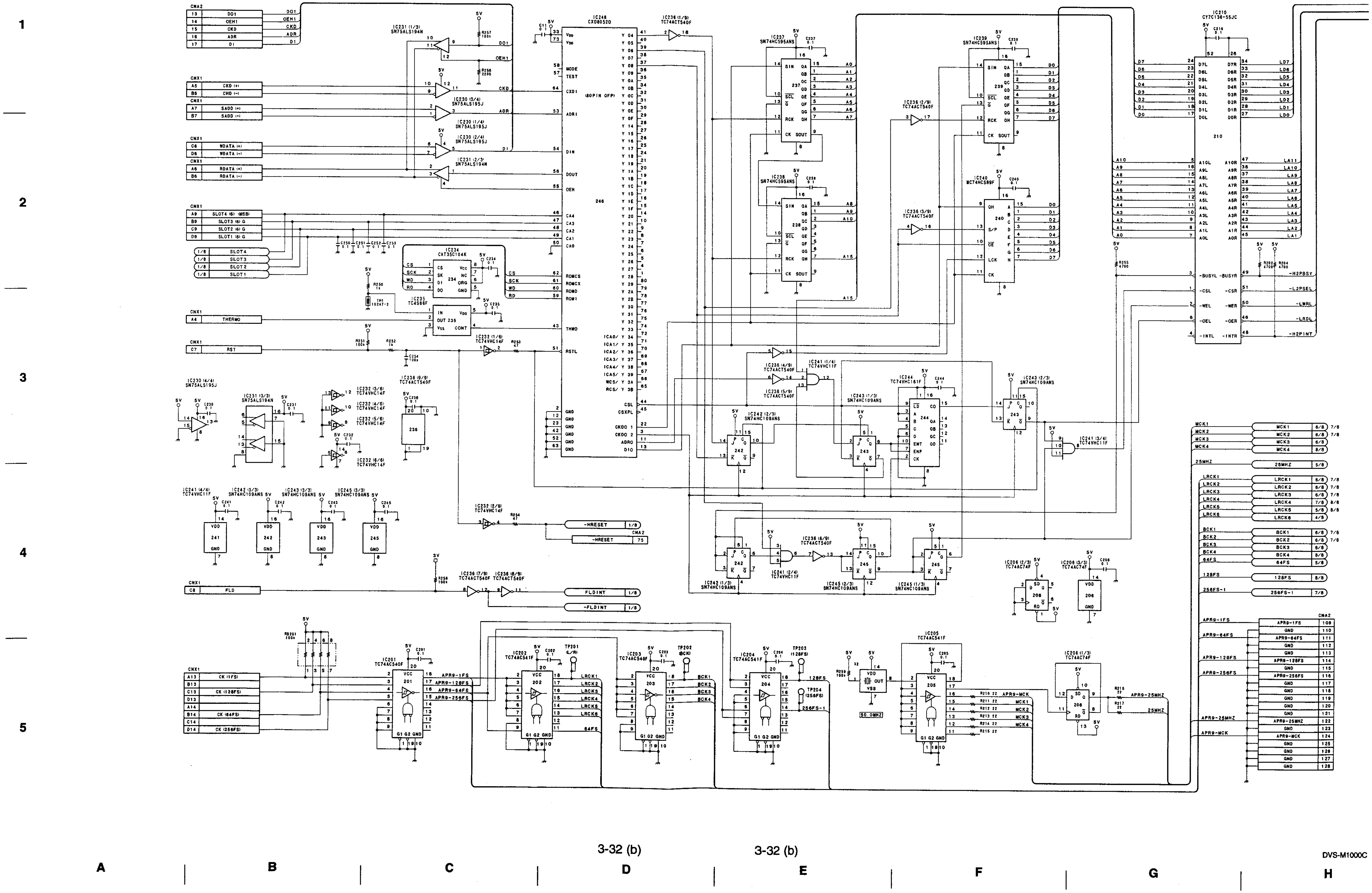


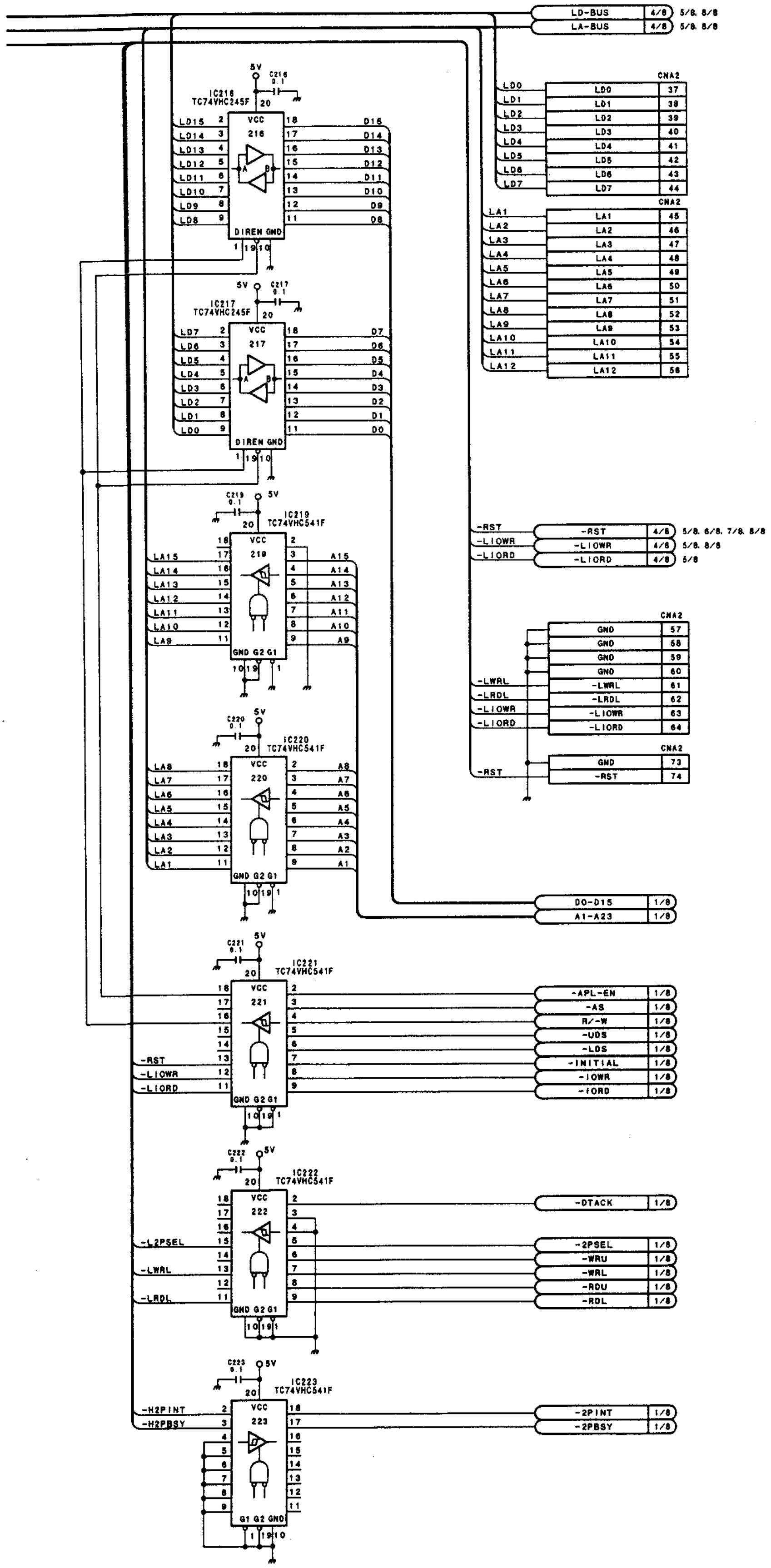
D0-D15
A1-A23
-WRU
-RDU
-WRL
-RDL
MEMSEL
-ROM0
A18
-EEPROM
RAM0
RAM1
IC152 M27C4002-12F1
C152 0.1
R56 10k
COR153 2P
COP153 2PF
CN1152
IC158 AM29F010-70JC
C158 0.1
IC159 AM29F010-70JC
C159 0.1
IC154 CXK581000AM-70LL
C154 0.1
IC155 CXK581000AM-70LL
C155 0.1
IC156 CXK581000AM-70LL
C156 0.1
IC157 CXK581000AM-70LL
C157 0.1
D151 ERA82-004
IC151 ICL7665SCPA
C151 0.1
C52 1F 5.5V
R51 18k
R52 10k
R53 150k
R54 10
R55 100k
HYS1
SET1
SET2
HYS2
OUT
VDD
GND
VCC
VPP
PGM
5V
1
2
3
4
5

Audio Process Board
APR-8 (2/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

A B C D E F G H

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

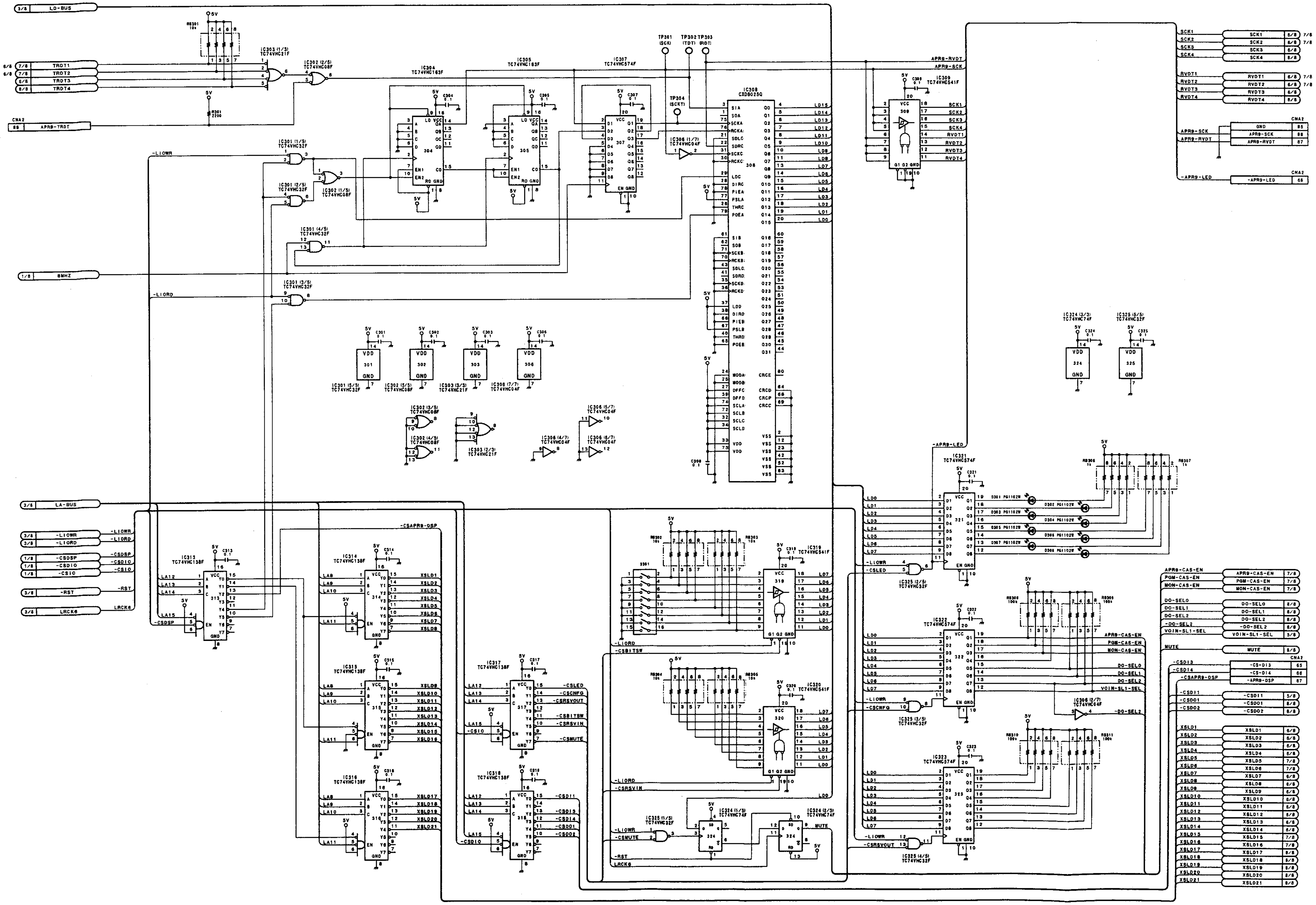

1
2
3
4
5
A
B
C
D
E
F
G
H
CNA2
CNX1
DO1
OEH1
CKD
ADR
DI
CKD (+)
CKD (-)
SADD (+)
SADD (-)
WDATA (+)
WDATA (-)
RDATA (+)
RDATA (-)
SLOT4 (6) (MSB)
SLOT3 (6) G
SLOT2 (6) G
SLOT1 (6) G
SLOT4
SLOT3
SLOT2
SLOT1
THERMO
RST
FLD
CK (1FS)
CK (128FS)
CK (64FS)
CK (256FS)
IC231 (1/3) SN75ALS194N
IC230 (3/4) SN75ALS195J
IC230 (1/4) SN75ALS195J
IC230 (2/4) SN75ALS195J
IC231 (2/3) SN75ALS194N
IC230 (4/4) SN75ALS195J
IC231 (3/3) SN75ALS194N
IC234 CAT35C104K
IC235 TC4S66F
IC246 CXD8052Q
(80PIN QFP)
IC236 (1/9) TC74ACT540F
IC236 (9/9) TC74ACT540F
IC232 (1/6) TC74VHC14F
IC232 (2/6) TC74VHC14F
IC232 (3/6) TC74VHC14F
IC232 (4/6) TC74VHC14F
IC232 (5/6) TC74VHC14F
IC232 (6/6) TC74VHC14F
IC237 SN74HC595ANS
IC238 SN74HC595ANS
IC239 SN74HC595ANS
IC240 MC74HC589F
IC236 (2/9) TC74ACT540F
IC236 (3/9) TC74ACT540F
IC236 (4/9) TC74ACT540F
IC236 (5/9) TC74ACT540F
IC236 (6/9) TC74ACT540F
IC236 (7/9) TC74ACT540F
IC236 (8/9) TC74ACT540F
IC241 (1/4) TC74VHC11F
IC241 (2/4) TC74VHC11F
IC241 (3/4) TC74VHC11F
IC241 (4/4) TC74VHC11F
IC242 (1/3) SN74HC109ANS
IC242 (2/3) SN74HC109ANS
IC242 (3/3) SN74HC109ANS
IC243 (1/3) SN74HC109ANS
IC243 (2/3) SN74HC109ANS
IC243 (3/3) SN74HC109ANS
IC244 TC74VHC161F
IC245 (1/3) SN74HC109ANS
IC245 (2/3) SN74HC109ANS
IC245 (3/3) SN74HC109ANS
IC210 CY7C136-55JC
IC201 TC74AC540F
IC202 TC74AC541F
IC203 TC74AC540F
IC204 TC74AC541F
IC205 TC74AC541F
IC206 (1/3) TC74AC74F
IC206 (2/3) TC74AC74F
IC206 (3/3) TC74AC74F
TP201 (L/R)
TP202 (BCK)
TP203 (128FS)
TP204 (256FS)
X2
50.0MHZ
-HRESET
-FLDINT
FLDINT
-H2PBSY
-L2PSEL
-LWRL
-LRDL
-H2PINT
MCK1
MCK2
MCK3
MCK4
25MHZ
LRCK1
LRCK2
LRCK3
LRCK4
LRCK5
LRCK6
BCK1
BCK2
BCK3
BCK4
64FS
128FS
256FS-1
APR9-1FS
APR9-64FS
APR9-128FS
APR9-256FS
APR9-25MHZ
APR9-MCK
GND
5V
3V



LD-BUS 4/8 5/8, 8/8
LA-BUS 4/8 5/8, 8/8
IC216 TC74VHC245F
IC217 TC74VHC245F
IC219 TC74VHC541F
IC220 TC74VHC541F
IC221 TC74VHC541F
IC222 TC74VHC541F
IC223 TC74VHC541F
CNA2
5V
-RST 4/8 5/8, 6/8, 7/8, 8/8
-LIOWR 4/8 5/8, 8/8
-LIORD 4/8 5/8
D0-D15 1/8
A1-A23 1/8
-APL-EN 1/8
-AS 1/8
R/-W 1/8
-UDS 1/8
-LDS 1/8
-INITIAL 1/8
-IOWR 1/8
-IORD 1/8
-DTACK 1/8
-2PSEL 1/8
-WRU 1/8
-WRL 1/8
-RDU 1/8
-RDL 1/8
-2PINT 1/8
-2PBSY 1/8
-L2PSEL
-LWRL
-LRDL
-H2PINT
-H2PBSY

Audio Process Board
APR-8 (3/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

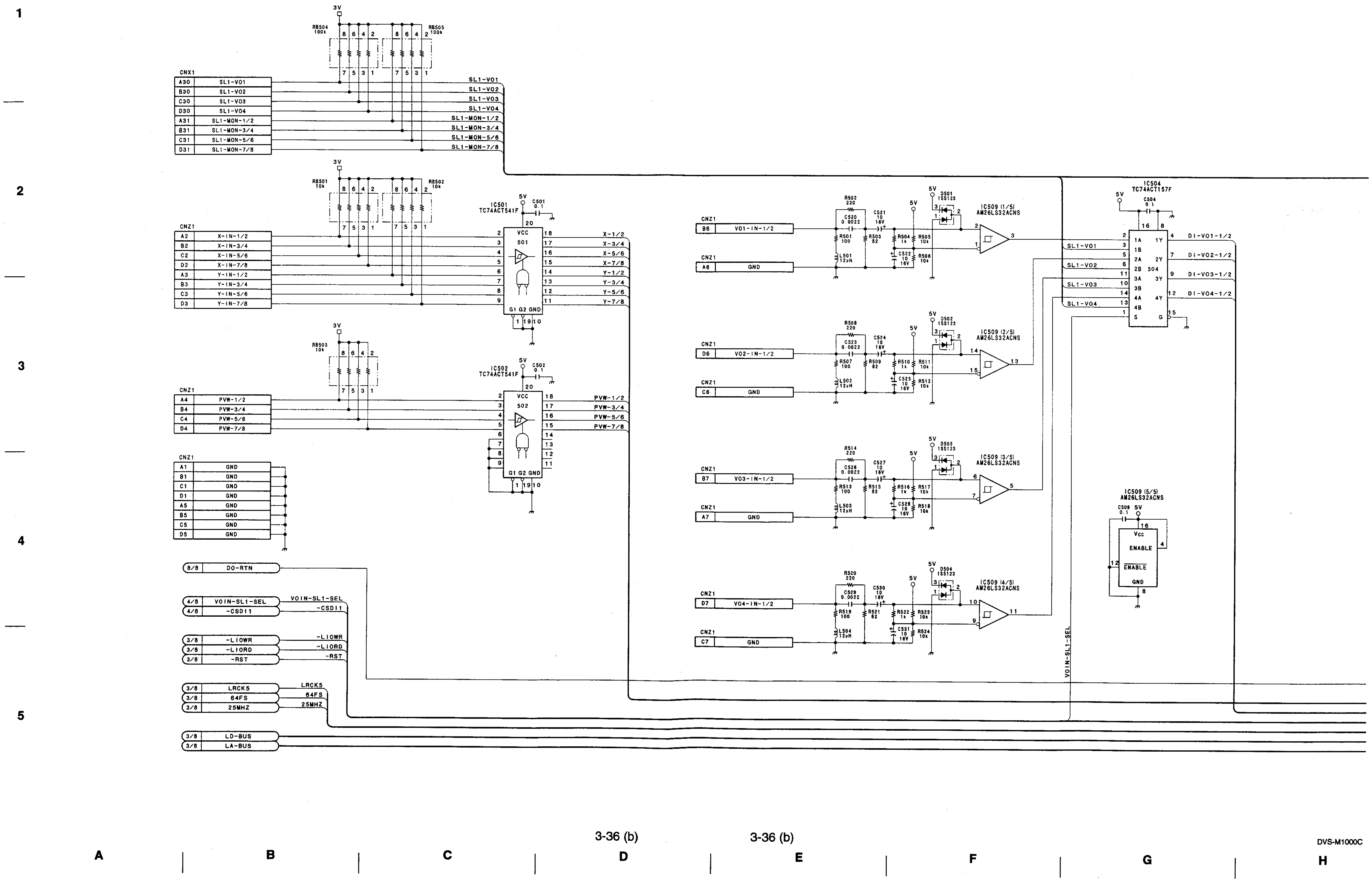

LD-BUS
LA-BUS
8MHZ
TRDT1
TRDT2
TRDT3
TRDT4
APR8-TRDT
CNA2
IC303 (1/3) TC74VHC21F
IC302 (2/5) TC74VHC08F
IC304 TC74VHC163F
IC305 TC74VHC163F
IC307 TC74VHC574F
IC308 CXD8025Q
IC309 TC74VHC541F
IC301 TC74VHC32F
IC306 TC74VHC04F
TP301 (SCK)
TP302 (TDT)
TP303 (RDT)
TP304 (SCKT)
APR8-RVDT
APR8-SCK
SCK1
SCK2
SCK3
SCK4
RVDT1
RVDT2
RVDT3
RVDT4
-APR8-LED
-LIOWR
-LIORD
-CSDSP
-CSD10
-CS10
-RST
LRCK8
-CSAPR8-DSP
IC313 TC74VHC138F
IC314 TC74VHC138F
IC315 TC74VHC138F
IC316 TC74VHC138F
IC317 TC74VHC138F
IC318 TC74VHC138F
IC319 TC74VHC541F
IC320 TC74VHC541F
IC321 TC74VHC574F
IC322 TC74VHC574F
IC323 TC74VHC574F
IC324 TC74VHC74F
IC325 TC74VHC32F
S301
-CSLED
-CSCNFG
-CSRSVOUT
-CSBITSW
-CSRSVIN
-CSMUTE
-CSD11
-CSD13
-CSD01
-CSD02
-CSD14
MUTE
APR8-CAS-EN
PGM-CAS-EN
MON-CAS-EN
DO-SEL0
DO-SEL1
DO-SEL2
-DO-SEL2
VOIN-SL1-SEL
XSLD1
XSLD2
XSLD3
XSLD4
XSLD5
XSLD6
XSLD7
XSLD8
XSLD9
XSLD10
XSLD11
XSLD12
XSLD13
XSLD14
XSLD15
XSLD16
XSLD17
XSLD18
XSLD19
XSLD20
XSLD21
5V

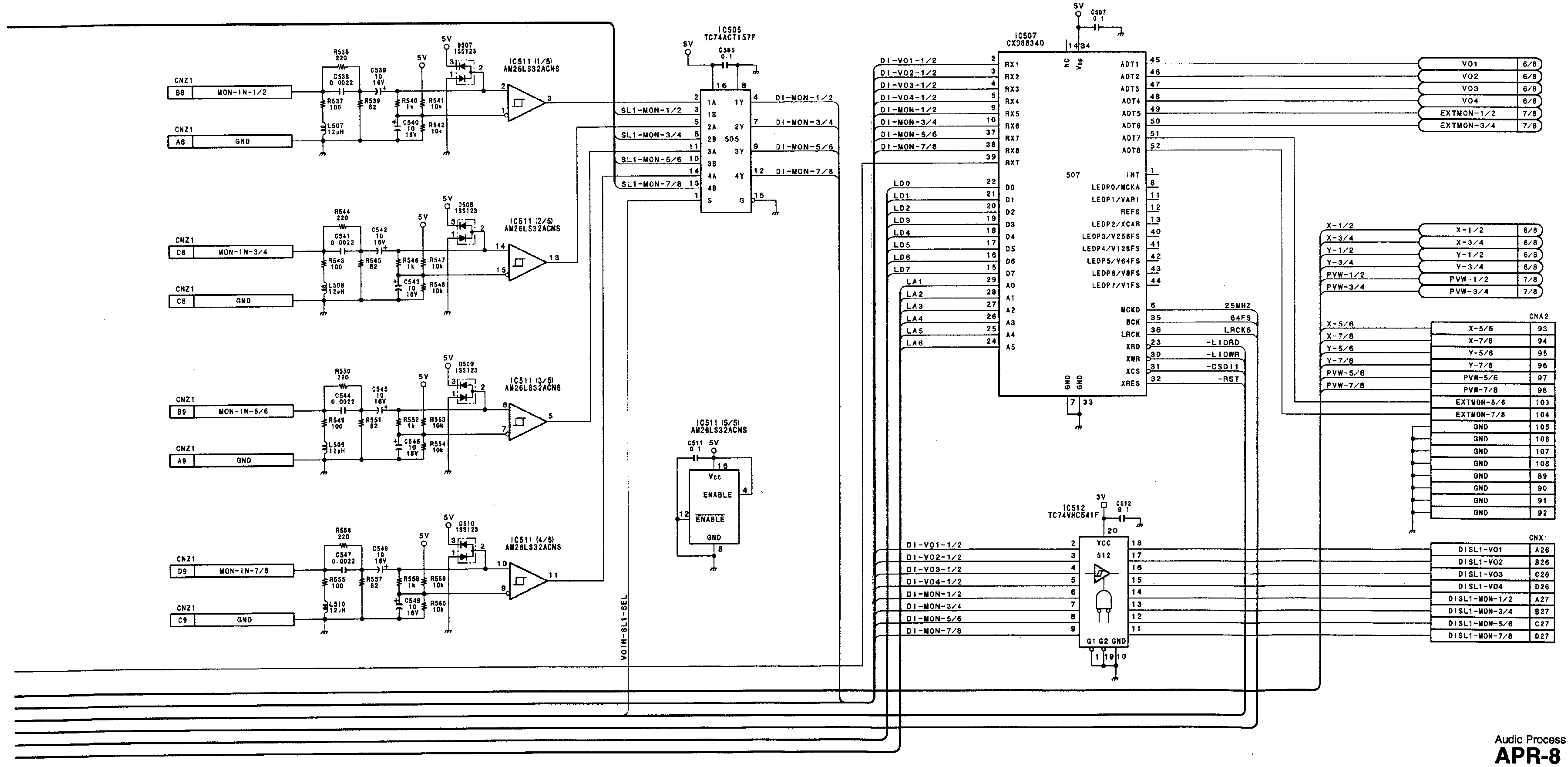
Audio Process Board
APR-8 (4/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

A B C D E F G H

1 2 3 4 5

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
3V
RB504 100k
RB505 100k
CNX1
A30 SL1-VO1
B30 SL1-VO2
C30 SL1-VO3
D30 SL1-VO4
A31 SL1-MON-1/2
B31 SL1-MON-3/4
C31 SL1-MON-5/6
D31 SL1-MON-7/8
RB501 10k
RB502 10k
IC501 TC74ACT541F
C501 0.1
5V
VCC
501
G1 G2 GND
CNZ1
A2 X-IN-1/2
B2 X-IN-3/4
C2 X-IN-5/6
D2 X-IN-7/8
A3 Y-IN-1/2
B3 Y-IN-3/4
C3 Y-IN-5/6
D3 Y-IN-7/8
X-1/2
X-3/4
X-5/6
X-7/8
Y-1/2
Y-3/4
Y-5/6
Y-7/8
RB503 10k
IC502 TC74ACT541F
C502 0.1
502
A4 PVW-1/2
B4 PVW-3/4
C4 PVW-5/6
D4 PVW-7/8
A1 GND
B1 GND
C1 GND
D1 GND
A5 GND
B5 GND
C5 GND
D5 GND
8/8 DO-RTN
4/8 VOIN-SL1-SEL
4/8 -CSDI1
3/8 -LIOWR
3/8 -LIORD
3/8 -RST
3/8 LRCK5
3/8 64FS
3/8 25MHZ
3/8 LD-BUS
3/8 LA-BUS
B6 VO1-IN-1/2
A6 GND
D6 VO2-IN-1/2
C6 GND
B7 VO3-IN-1/2
A7 GND
D7 VO4-IN-1/2
C7 GND
R502 220
C520 0.0022
C521 10 16V
R501 100
R503 82
R504 1k
R505 10k
R506 10k
C522 10 16V
L501 12μH
D501 1SS123
IC509 (1/5) AM26LS32ACNS
R508 220
C523 0.0022
C524 10 16V
R507 100
R509 82
R510 1k
R511 10k
R512 10k
C525 10 16V
L502 12μH
D502 1SS123
IC509 (2/5) AM26LS32ACNS
R514 220
C526 0.0022
C527 10 16V
R513 100
R515 82
R516 1k
R517 10k
R518 10k
C528 10 16V
L503 12μH
D503 1SS123
IC509 (3/5) AM26LS32ACNS
R520 220
C529 0.0022
C530 10 16V
R519 100
R521 82
R522 1k
R523 10k
R524 10k
C531 10 16V
L504 12μH
D504 1SS123
IC509 (4/5) AM26LS32ACNS
IC509 (5/5) AM26LS32ACNS
C508 0.1
Vcc
ENABLE
ENABLE
GND
IC504 TC74ACT157F
C504 0.1
1A 1Y
1B
2A 2Y
2B 504
3A 3Y
3B
4A 4Y
4B
S G
SL1-VO1
SL1-VO2
SL1-VO3
SL1-VO4
DI-VO1-1/2
DI-VO2-1/2
DI-VO3-1/2
DI-VO4-1/2
VOIN-SL1-SEL


CNZ1
B8 MON-IN-1/2
A8 GND
D8 MON-IN-3/4
C8 GND
B9 MON-IN-5/6
A9 GND
D9 MON-IN-7/8
C9 GND
R538 220
C538 0.0022
C539 10 16V
R537 100
R539 82
R540 1k
R541 10k
C540 10 16V
R542 10k
L507 12μH
D507 1SS123
5V
IC511 (1/5) AM26LS32ACNS
R544 220
C541 0.0022
C542 10 16V
R543 100
R545 82
R546 1k
R547 10k
C543 10 16V
R548 10k
L508 12μH
D508 1SS123
IC511 (2/5) AM26LS32ACNS
R550 220
C544 0.0022
C545 10 16V
R549 100
R551 82
R552 1k
R553 10k
C546 10 16V
R554 10k
L509 12μH
D509 1SS123
IC511 (3/5) AM26LS32ACNS
R556 220
C547 0.0022
C548 10 16V
R555 100
R557 82
R558 1k
R559 10k
C549 10 16V
R560 10k
L510 12μH
D510 1SS123
IC511 (4/5) AM26LS32ACNS
IC505 TC74ACT157F
C505 0.1
SL1-MON-1/2
SL1-MON-3/4
SL1-MON-5/6
SL1-MON-7/8
1A 1B 2A 2B 3A 3B 4A 4B S 1Y 2Y 3Y 4Y G 505
DI-MON-1/2
DI-MON-3/4
DI-MON-5/6
DI-MON-7/8
VOIN-SL1-SEL
IC511 (5/5) AM26LS32ACNS
C511 0.1
Vcc
ENABLE
ENABLE
GND
IC507 CXD8834Q
C507 0.1
NC
VDD
DI-VO1-1/2
DI-VO2-1/2
DI-VO3-1/2
DI-VO4-1/2
DI-MON-1/2
DI-MON-3/4
DI-MON-5/6
DI-MON-7/8
RX1 RX2 RX3 RX4 RX5 RX6 RX7 RX8 RXT
LD0 LD1 LD2 LD3 LD4 LD5 LD6 LD7
LA1 LA2 LA3 LA4 LA5 LA6
D0 D1 D2 D3 D4 D5 D6 D7 A0 A1 A2 A3 A4 A5
507
ADT1 ADT2 ADT3 ADT4 ADT5 ADT6 ADT7 ADT8
INT
LEDP0/MCKA
LEDP1/VARI
REFS
LEDP2/XCAR
LEDP3/V256FS
LEDP4/V128FS
LEDP5/V64FS
LEDP6/V8FS
LEDP7/V1FS
MCKD
BCK
LRCK
XRD
XWR
XCS
XRES
GND
25MHZ
64FS
LRCK5
-LIORD
-LIOWR
-CSDI1
-RST
VO1 6/8
VO2 6/8
VO3 6/8
VO4 6/8
EXTMON-1/2 7/8
EXTMON-3/4 7/8
X-1/2 6/8
X-3/4 6/8
Y-1/2 6/8
Y-3/4 6/8
PVW-1/2 7/8
PVW-3/4 7/8
CNA2
X-5/6 93
X-7/8 94
Y-5/6 95
Y-7/8 96
PVW-5/6 97
PVW-7/8 98
EXTMON-5/6 103
EXTMON-7/8 104
GND 105
GND 106
GND 107
GND 108
GND 89
GND 90
GND 91
GND 92
IC512 TC74VHC541F
3V
C512 0.1
VCC
512
G1 G2 GND
CNX1
DISL1-VO1 A26
DISL1-VO2 B26
DISL1-VO3 C26
DISL1-VO4 D26
DISL1-MON-1/2 A27
DISL1-MON-3/4 B27
DISL1-MON-5/6 C27
DISL1-MON-7/8 D27

Audio Process Board
APR-8 (5/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

APR-8 (6/8) Audio Process Board

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

1

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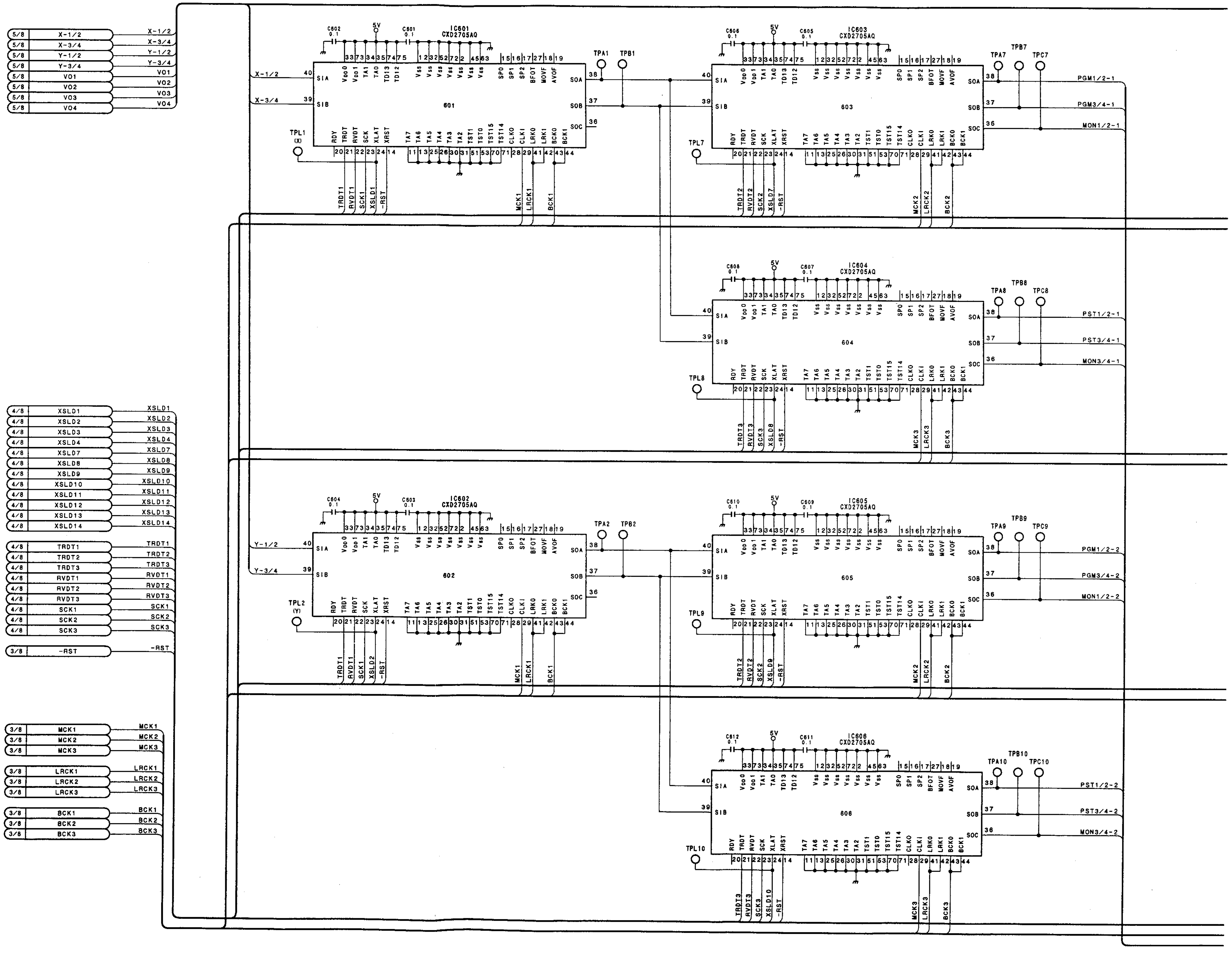
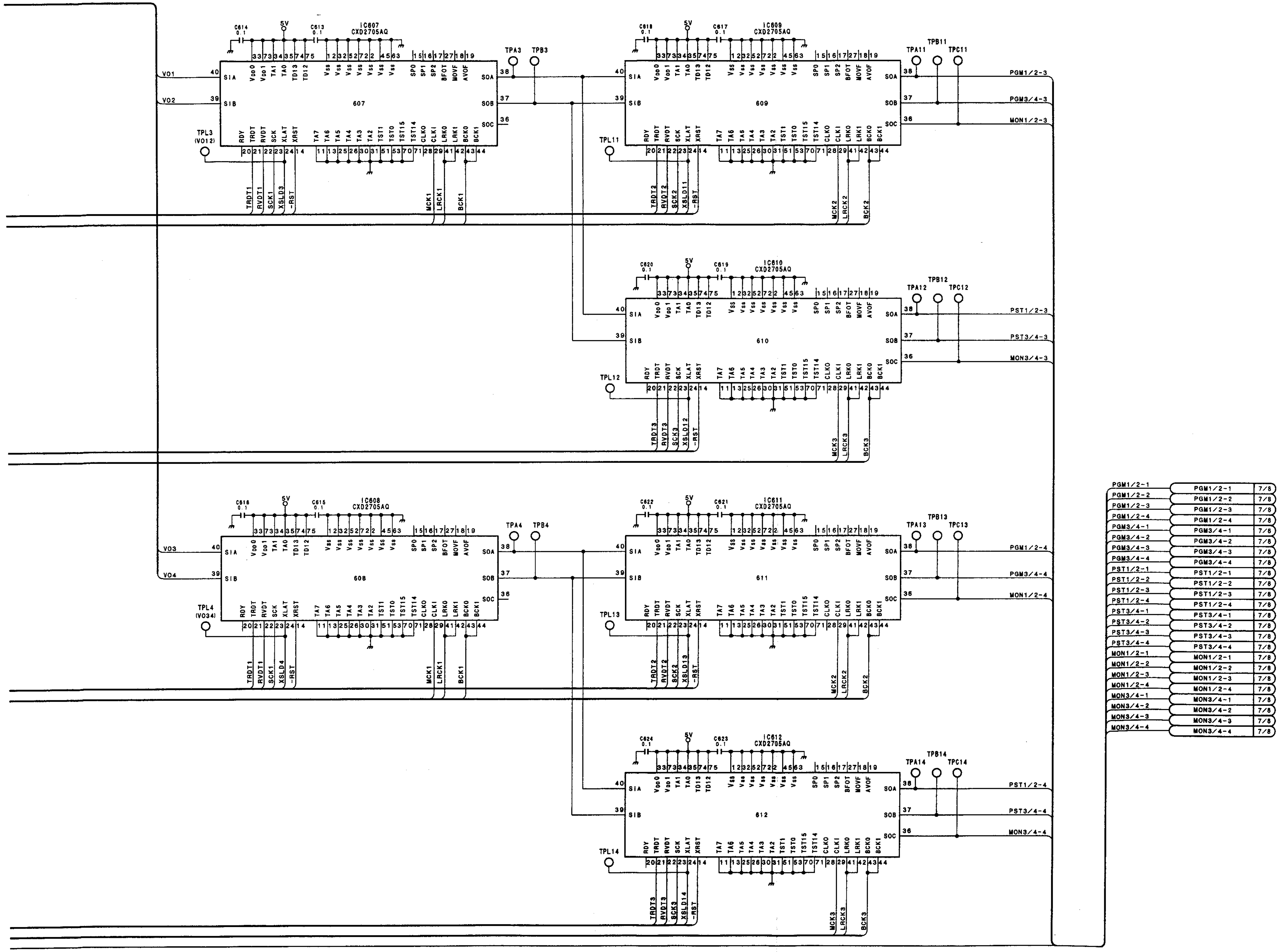

5/8 X-1/2
5/8 X-3/4
5/8 Y-1/2
5/8 Y-3/4
5/8 VO1
5/8 VO2
5/8 VO3
5/8 VO4
4/8 XSLD1
4/8 XSLD2
4/8 XSLD3
4/8 XSLD4
4/8 XSLD7
4/8 XSLD8
4/8 XSLD9
4/8 XSLD10
4/8 XSLD11
4/8 XSLD12
4/8 XSLD13
4/8 XSLD14
4/8 TRDT1
4/8 TRDT2
4/8 TRDT3
4/8 RVDT1
4/8 RVDT2
4/8 RVDT3
4/8 SCK1
4/8 SCK2
4/8 SCK3
3/8 -RST
3/8 MCK1
3/8 MCK2
3/8 MCK3
3/8 LRCK1
3/8 LRCK2
3/8 LRCK3
3/8 BCK1
3/8 BCK2
3/8 BCK3
IC601 CXD2705AQ
IC602 CXD2705AQ
IC603 CXD2705AQ
IC604 CXD2705AQ
IC605 CXD2705AQ
IC606 CXD2705AQ
5V
C601 0.1
C602 0.1
C603 0.1
C604 0.1
C605 0.1
C606 0.1
C607 0.1
C608 0.1
C609 0.1
C610 0.1
C611 0.1
C612 0.1
TPA1
TPB1
TPA2
TPB2
TPA7
TPB7
TPC7
TPA8
TPB8
TPC8
TPA9
TPB9
TPC9
TPA10
TPB10
TPC10
TPL1 (X)
TPL2 (Y)
TPL7
TPL8
TPL9
TPL10
SIA
SIB
SOA
SOB
SOC
PGM1/2-1
PGM3/4-1
MON1/2-1
PST1/2-1
PST3/4-1
MON3/4-1
PGM1/2-2
PGM3/4-2
MON1/2-2
PST1/2-2
PST3/4-2
MON3/4-2

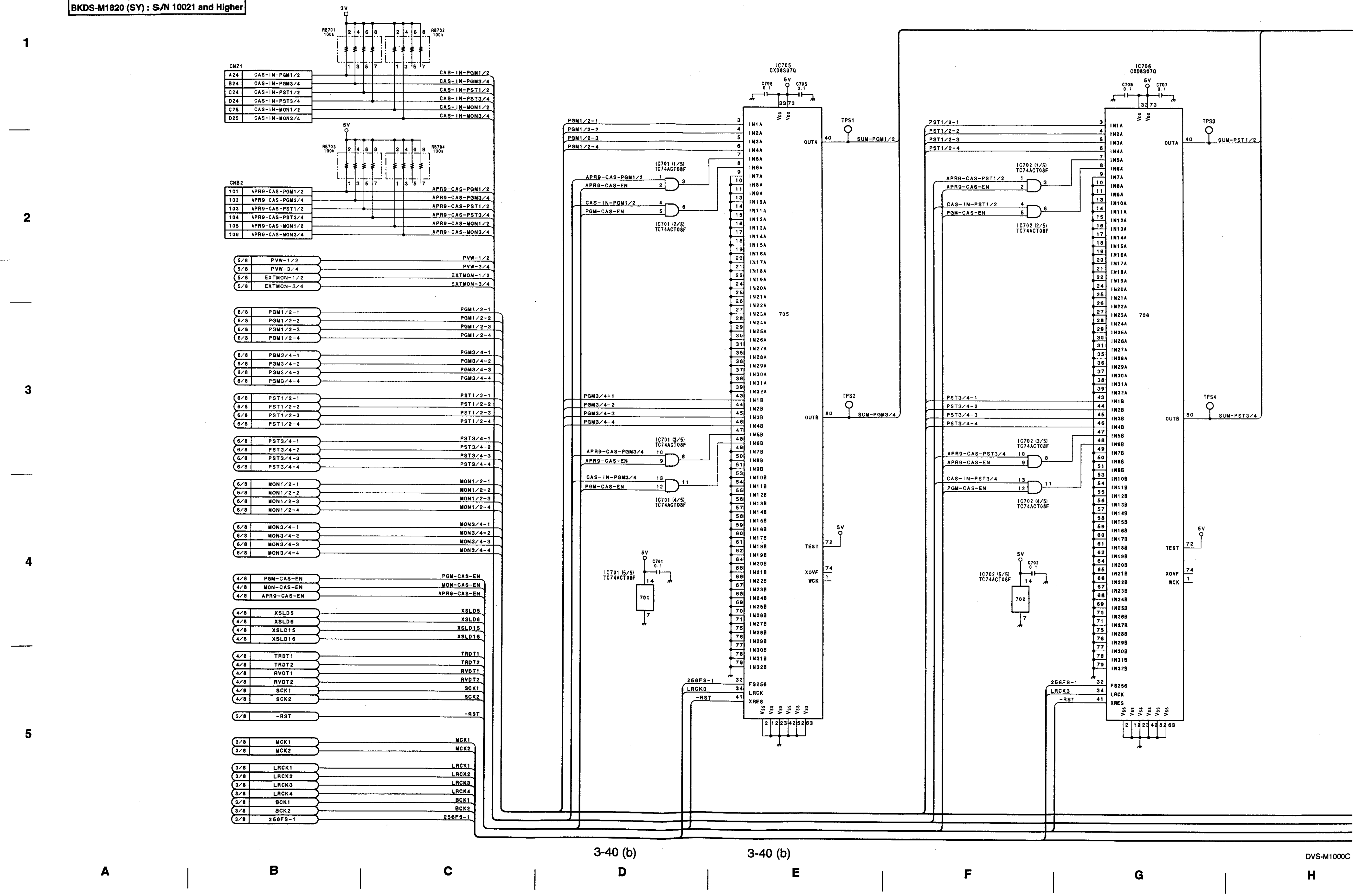
A | B | C | D | E | F | G | H

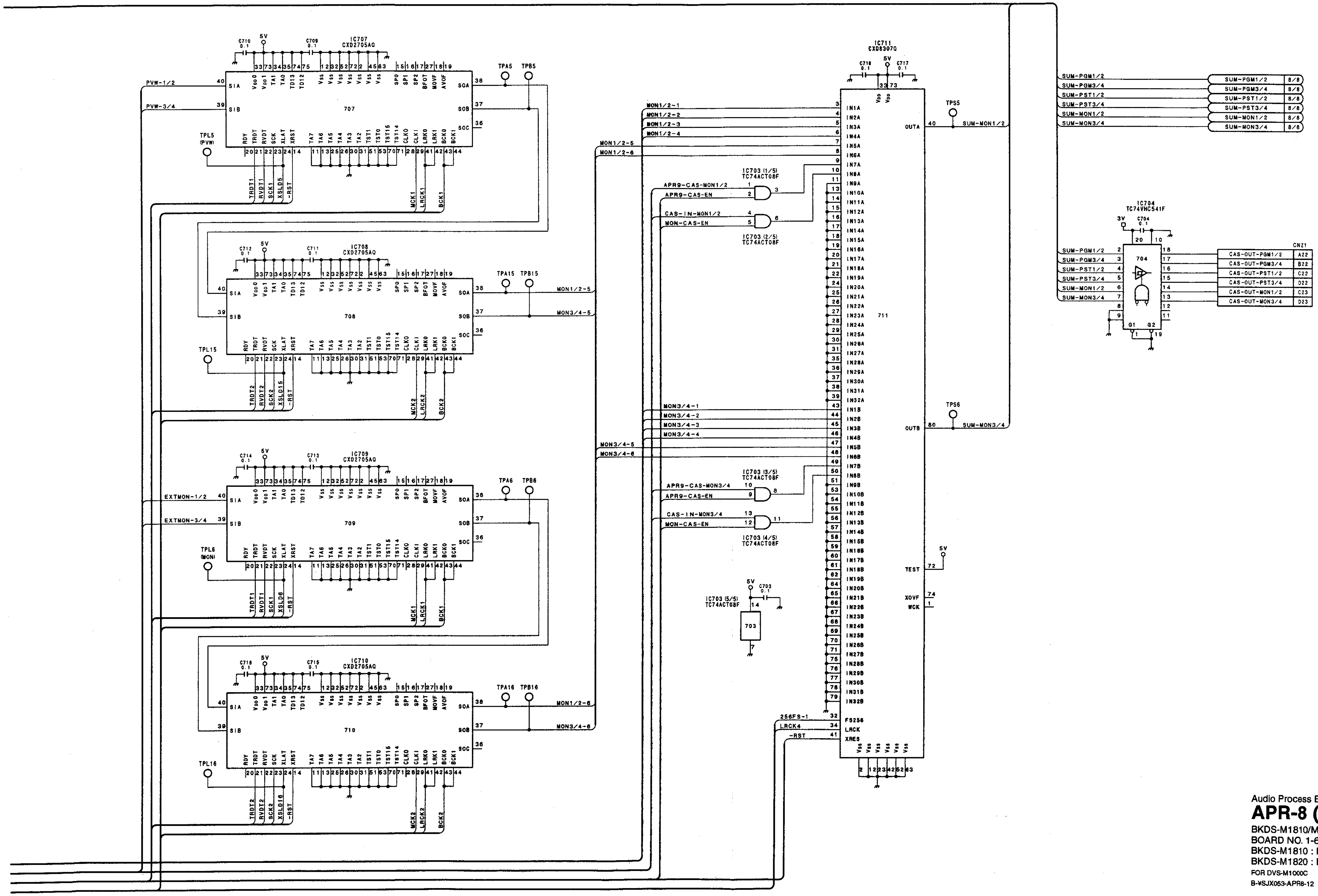
3-38 (b)


IC607 CXD2705AQ
IC608 CXD2705AQ
IC609 CXD2705AQ
IC610 CXD2705AQ
IC611 CXD2705AQ
IC612 CXD2705AQ
C613 0.1
C614 0.1
C615 0.1
C616 0.1
C617 0.1
C618 0.1
C619 0.1
C620 0.1
C621 0.1
C622 0.1
C623 0.1
C624 0.1
5V
VO1
VO2
VO3
VO4
TPL3 (VO12)
TPL4 (VO34)
TPL11
TPL12
TPL13
TPL14
TPA3
TPB3
TPA4
TPB4
TPA11
TPB11
TPC11
TPA12
TPB12
TPC12
TPA13
TPB13
TPC13
TPA14
TPB14
TPC14
SIA
SIB
SOA
SOB
SOC
VDD0
VDD1
TA1
TA0
TD13
TD12
Vss
SP0
SP1
SP2
BFOT
MOVF
AVOF
RDY
TRDT
RVDT
SCK
XLAT
XRST
TA7
TA6
TA5
TA4
TA3
TA2
TST1
TST0
TST15
TST14
CLKO
CLKI
LRKO
LRKI
BCKO
BCKI
TRDT1
RVDT1
SCK1
XSLD3
XSLD4
-RST
MCK1
LRCK1
BCK1
TRDT2
RVDT2
SCK2
XSLD11
XSLD13
MCK2
LRCK2
BCK2
TRDT3
RVDT3
SCK3
XSLD12
XSLD14
MCK3
LRCK3
BCK3
PGM1/2-3
PGM3/4-3
MON1/2-3
PST1/2-3
PST3/4-3
MON3/4-3
PGM1/2-4
PGM3/4-4
MON1/2-4
PST1/2-4
PST3/4-4
MON3/4-4
PGM1/2-1 PGM1/2-1 7/8
PGM1/2-2 PGM1/2-2 7/8
PGM1/2-3 PGM1/2-3 7/8
PGM1/2-4 PGM1/2-4 7/8
PGM3/4-1 PGM3/4-1 7/8
PGM3/4-2 PGM3/4-2 7/8
PGM3/4-3 PGM3/4-3 7/8
PGM3/4-4 PGM3/4-4 7/8
PST1/2-1 PST1/2-1 7/8
PST1/2-2 PST1/2-2 7/8
PST1/2-3 PST1/2-3 7/8
PST1/2-4 PST1/2-4 7/8
PST3/4-1 PST3/4-1 7/8
PST3/4-2 PST3/4-2 7/8
PST3/4-3 PST3/4-3 7/8
PST3/4-4 PST3/4-4 7/8
MON1/2-1 MON1/2-1 7/8
MON1/2-2 MON1/2-2 7/8
MON1/2-3 MON1/2-3 7/8
MON1/2-4 MON1/2-4 7/8
MON3/4-1 MON3/4-1 7/8
MON3/4-2 MON3/4-2 7/8
MON3/4-3 MON3/4-3 7/8
MON3/4-4 MON3/4-4 7/8

Audio Process Board
APR-8 (6/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

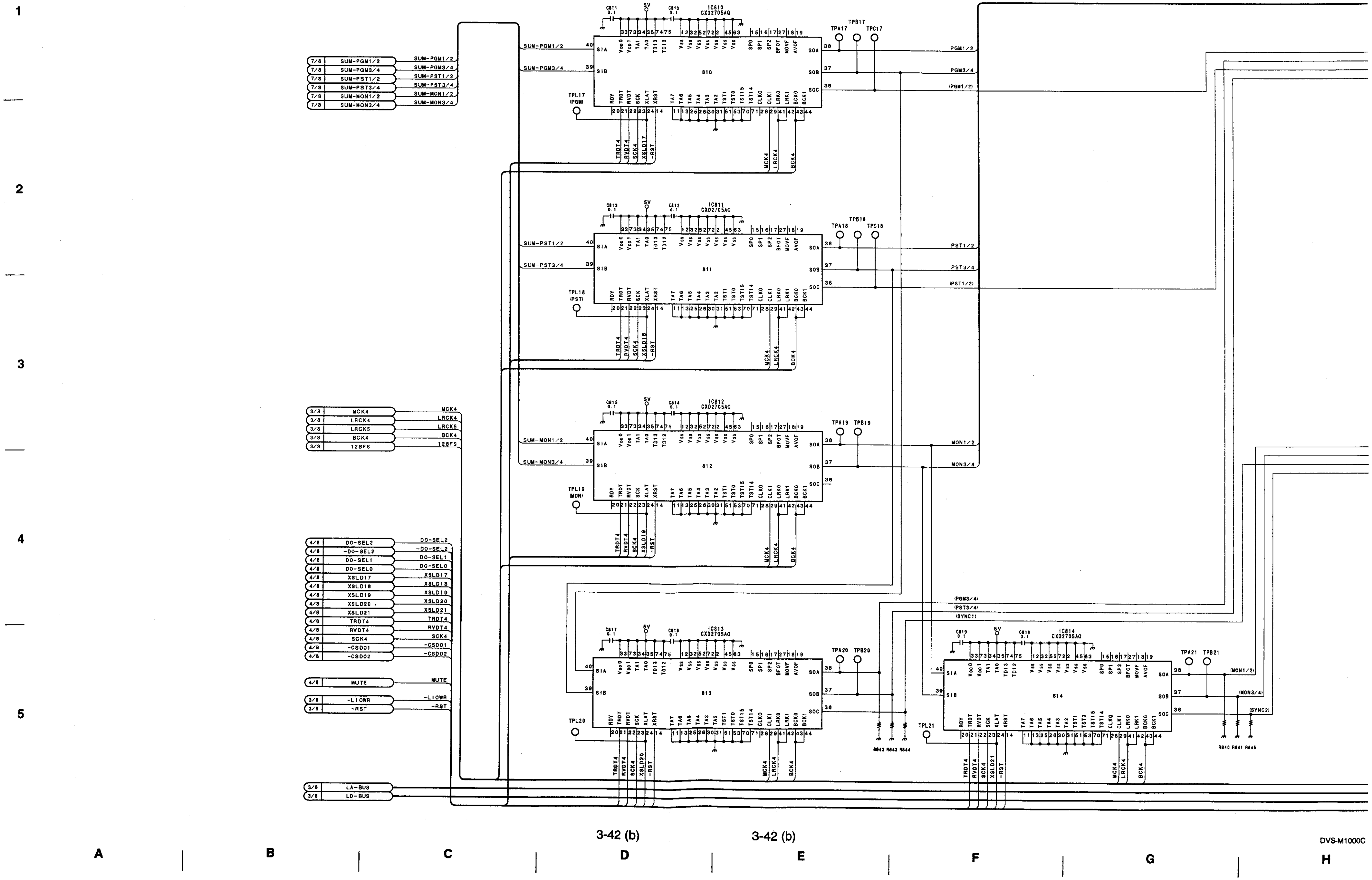
BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

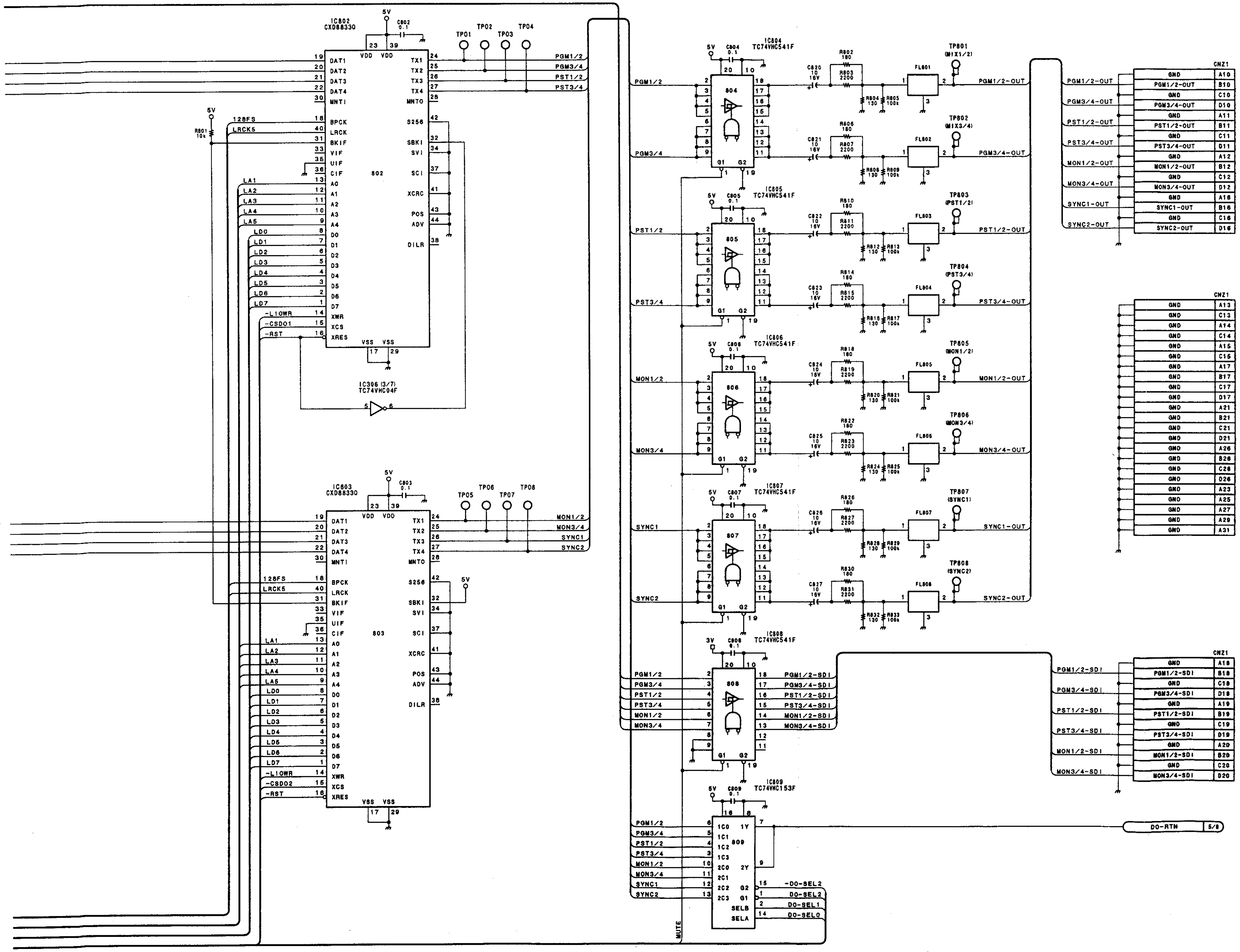

1
2
3
4
5
A
B
C
D
E
F
G
H
3V
RB701 100k
RB702 100k
5V
RB703 100k
RB704 100k
CNZ1
A24 CAS-IN-PGM1/2
B24 CAS-IN-PGM3/4
C24 CAS-IN-PST1/2
D24 CAS-IN-PST3/4
C25 CAS-IN-MON1/2
D25 CAS-IN-MON3/4
CN82
101 APR9-CAS-PGM1/2
102 APR9-CAS-PGM3/4
103 APR9-CAS-PST1/2
104 APR9-CAS-PST3/4
105 APR9-CAS-MON1/2
106 APR9-CAS-MON3/4
5/8 PVW-1/2
5/8 PVW-3/4
5/8 EXTMON-1/2
5/8 EXTMON-3/4
6/8 PGM1/2-1
6/8 PGM1/2-2
6/8 PGM1/2-3
6/8 PGM1/2-4
6/8 PGM3/4-1
6/8 PGM3/4-2
6/8 PGM3/4-3
6/8 PGM3/4-4
6/8 PST1/2-1
6/8 PST1/2-2
6/8 PST1/2-3
6/8 PST1/2-4
6/8 PST3/4-1
6/8 PST3/4-2
6/8 PST3/4-3
6/8 PST3/4-4
6/8 MON1/2-1
6/8 MON1/2-2
6/8 MON1/2-3
6/8 MON1/2-4
6/8 MON3/4-1
6/8 MON3/4-2
6/8 MON3/4-3
6/8 MON3/4-4
4/8 PGM-CAS-EN
4/8 MON-CAS-EN
4/8 APR9-CAS-EN
4/8 XSLD5
4/8 XSLD6
4/8 XSLD15
4/8 XSLD16
4/8 TRDT1
4/8 TRDT2
4/8 RVDT1
4/8 RVDT2
4/8 SCK1
4/8 SCK2
3/8 -RST
3/8 MCK1
3/8 MCK2
3/8 LRCK1
3/8 LRCK2
3/8 LRCK3
3/8 LRCK4
3/8 BCK1
3/8 BCK2
3/8 256FS-1
IC705 CXD8307Q
C708 0.1
C705 0.1
705
TPS1
SUM-PGM1/2
TPS2
SUM-PGM3/4
IC701 (1/5) TC74ACT08F
IC701 (2/5) TC74ACT08F
IC701 (3/5) TC74ACT08F
IC701 (4/5) TC74ACT08F
IC701 (5/5) TC74ACT08F
C701 0.1
701
IC706 CXD8307Q
C706 0.1
C707 0.1
706
TPS3
SUM-PST1/2
TPS4
SUM-PST3/4
IC702 (1/5) TC74ACT08F
IC702 (2/5) TC74ACT08F
IC702 (3/5) TC74ACT08F
IC702 (4/5) TC74ACT08F
IC702 (5/5) TC74ACT08F
C702 0.1
702
OUTA
OUTB
TEST
XOVF
WCK
FS256
LRCK
XRES
VDD
VSS


IC707 CXD2705AQ
IC708 CXD2705AQ
IC709 CXD2705AQ
IC710 CXD2705AQ
IC711 CXD8307Q
IC703 (1/5) TC74ACT08F
IC703 (2/5) TC74ACT08F
IC703 (3/5) TC74ACT08F
IC703 (4/5) TC74ACT08F
IC703 (5/5) TC74ACT08F
IC704 TC74VHC541F
CN21
PVW-1/2
PVW-3/4
EXTMON-1/2
EXTMON-3/4
TPL5 (PVW)
TPL15
TPL6 (MON)
TPL16
TPA5
TPB5
TPA15
TPB15
TPA6
TPB6
TPA16
TPB16
TPS5
TPS6
MON1/2-1
MON1/2-2
MON1/2-3
MON1/2-4
MON1/2-5
MON1/2-6
MON3/4-1
MON3/4-2
MON3/4-3
MON3/4-4
MON3/4-5
MON3/4-6
APR9-CAS-MON1/2
APR9-CAS-EN
CAS-IN-MON1/2
MON-CAS-EN
APR9-CAS-MON3/4
CAS-IN-MON3/4
SUM-MON1/2
SUM-MON3/4
SUM-PGM1/2
SUM-PGM3/4
SUM-PST1/2
SUM-PST3/4
CAS-OUT-PGM1/2 A22
CAS-OUT-PGM3/4 B22
CAS-OUT-PST1/2 C22
CAS-OUT-PST3/4 D22
CAS-OUT-MON1/2 C23
CAS-OUT-MON3/4 D23
256FS-1
LRCK4
-RST
5V
3V
1
2
3
4
5
I
J
K
L
M
N
O
P

Audio Process Board
APR-8 (7/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

BKDS-M1810 (SY) : S/N 10101 and Higher
BKDS-M1820 (SY) : S/N 10021 and Higher

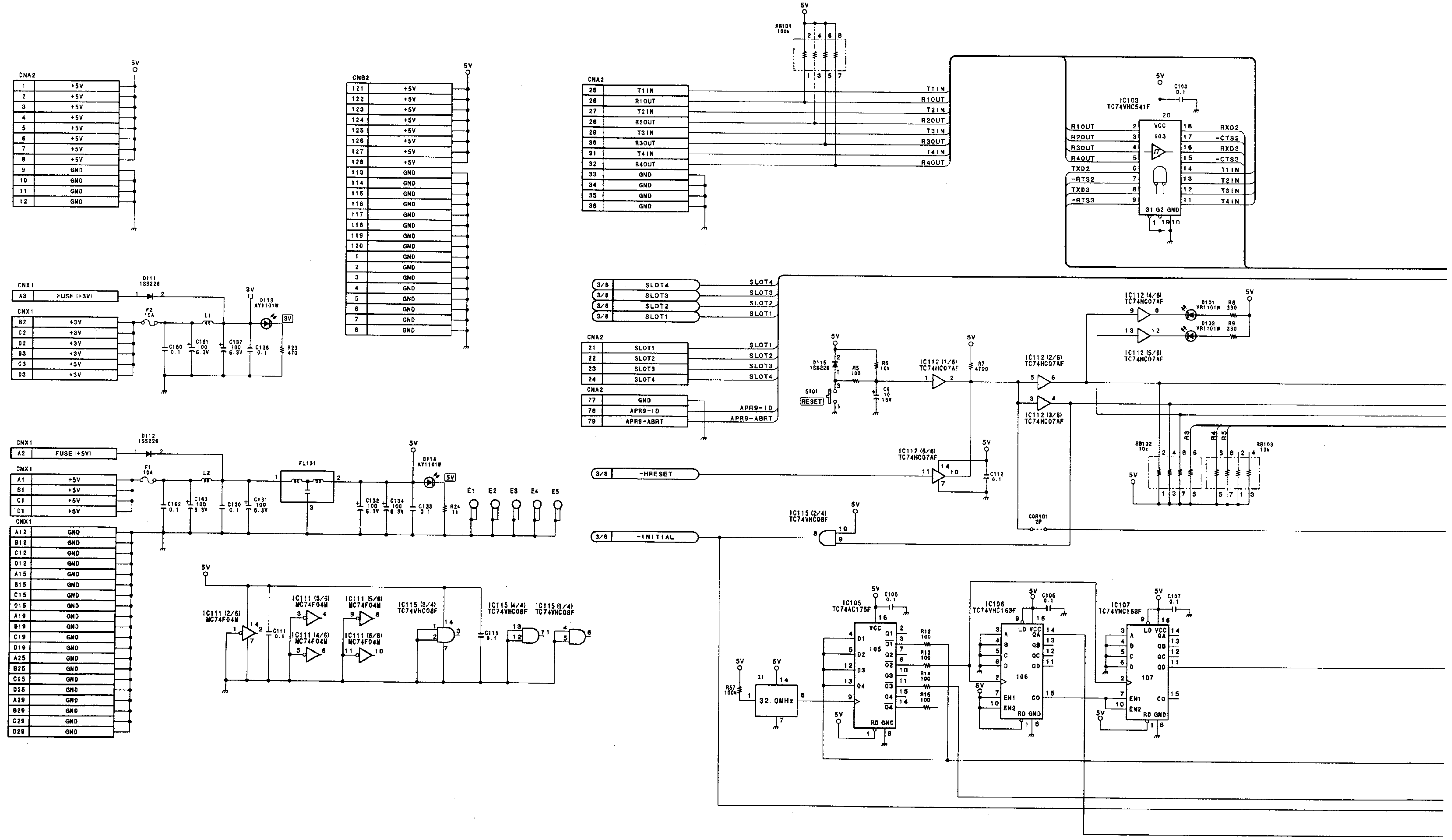

1
2
3
4
5
A
B
C
D
E
F
G
H
IC810 CXD2705AQ
IC811 CXD2705AQ
IC812 CXD2705AQ
IC813 CXD2705AQ
IC814 CXD2705AQ
C811 0.1
C810 0.1
C813 0.1
C812 0.1
C815 0.1
C814 0.1
C817 0.1
C816 0.1
C819 0.1
C818 0.1
5V
SIA
SIB
SOA
SOB
SOC
TPL17 (PGM)
TPL18 (PST)
TPL19 (MON)
TPL20
TPL21
TPA17
TPB17
TPC17
TPA18
TPB18
TPC18
TPA19
TPB19
TPA20
TPB20
TPA21
TPB21
7/8 SUM-PGM1/2
7/8 SUM-PGM3/4
7/8 SUM-PST1/2
7/8 SUM-PST3/4
7/8 SUM-MON1/2
7/8 SUM-MON3/4
PGM1/2
PGM3/4
(PGM1/2)
PST1/2
PST3/4
(PST1/2)
MON1/2
MON3/4
(PGM3/4)
(PST3/4)
(SYNC1)
(MON1/2)
(MON3/4)
(SYNC2)
3/8 MCK4
3/8 LRCK4
3/8 LRCK5
3/8 BCK4
3/8 128FS
4/8 DO-SEL2
4/8 -DO-SEL2
4/8 DO-SEL1
4/8 DO-SEL0
4/8 XSLD17
4/8 XSLD18
4/8 XSLD19
4/8 XSLD20
4/8 XSLD21
4/8 TRDT4
4/8 RVDT4
4/8 SCK4
4/8 -CSDO1
4/8 -CSDO2
4/8 MUTE
3/8 -LIOWR
3/8 -RST
3/8 LA-BUS
3/8 LD-BUS
TRDT4
RVDT4
SCK4
XSLD17
XSLD18
XSLD19
XSLD20
XSLD21
-RST
MCK4
LRCK4
BCK4
R842 R843 R844
R840 R841 R845


IC802
CXD8833O
IC803
CXD8833O
5V
C802 0.1
C803 0.1
TP01
TP02
TP03
TP04
TP05
TP06
TP07
TP08
PGM1/2
PGM3/4
PST1/2
PST3/4
MON1/2
MON3/4
SYNC1
SYNC2
128FS
LRCK5
R801 10k
IC306 (3/7)
TC74VHC04F
IC804 TC74VHC541F
IC805 TC74VHC541F
IC806 TC74VHC541F
IC807 TC74VHC541F
IC808 TC74VHC541F
IC809 TC74VHC153F
TP801 (MIX1/2)
TP802 (MIX3/4)
TP803 (PST1/2)
TP804 (PST3/4)
TP805 (MON1/2)
TP806 (MON3/4)
TP807 (SYNC1)
TP808 (SYNC2)
FL801
FL802
FL803
FL804
FL805
FL806
FL807
FL808
PGM1/2-OUT
PGM3/4-OUT
PST1/2-OUT
PST3/4-OUT
MON1/2-OUT
MON3/4-OUT
SYNC1-OUT
SYNC2-OUT
PGM1/2-SDI
PGM3/4-SDI
PST1/2-SDI
PST3/4-SDI
MON1/2-SDI
MON3/4-SDI
CNZ1
GND
DO-RTN
5/8
-DO-SEL2
DO-SEL2
DO-SEL1
DO-SEL0
MUTE

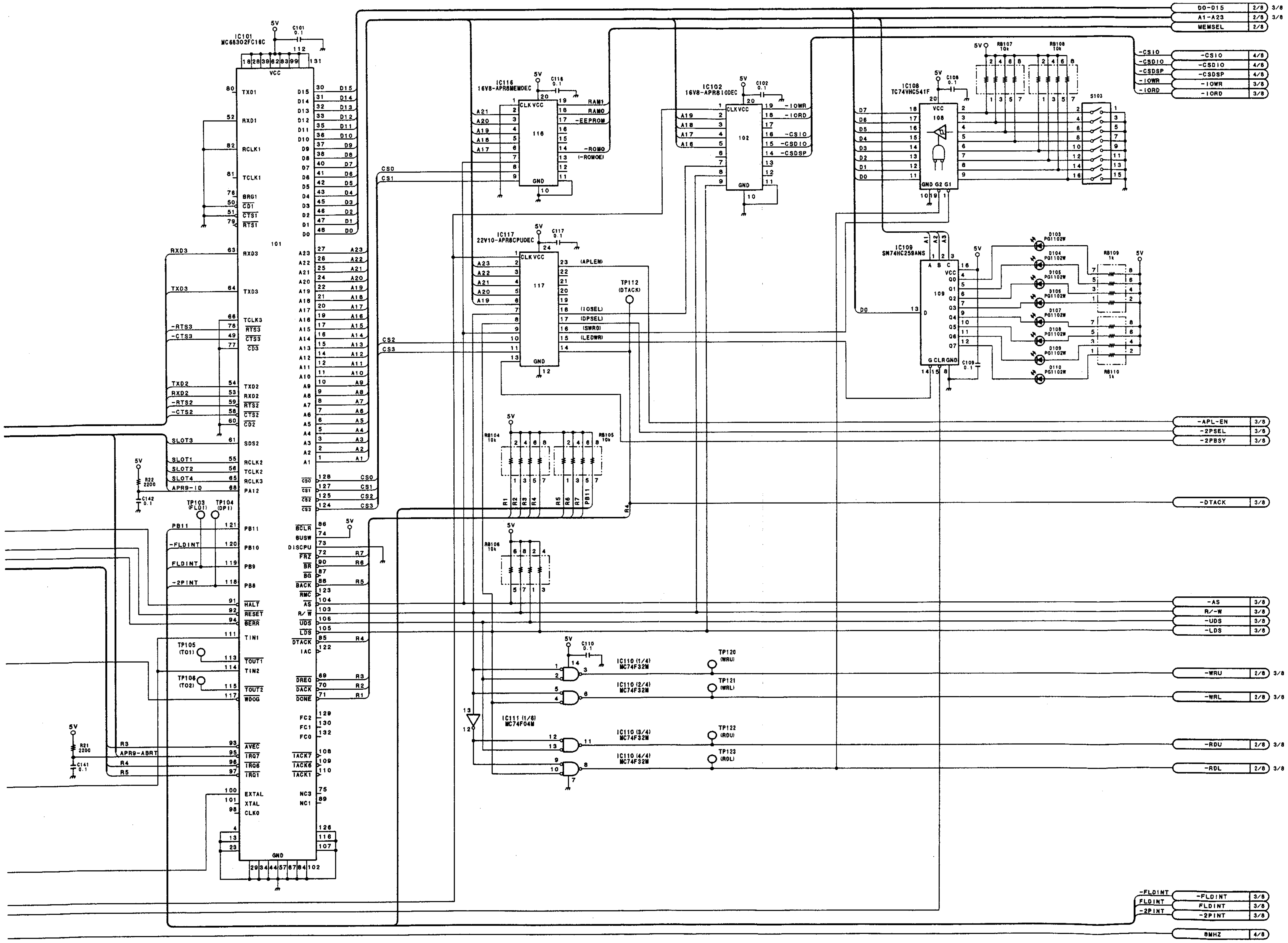
Audio Process Board
APR-8 (8/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-12
BKDS-M1810 : LOT NO. 601-
BKDS-M1820 : LOT NO. 601-
FOR DVS-M1000C
B-¥SJX053-APR8-12

APR-8 (1/8) Audio Process Board

BKDS-M1810 (SY) : S/N 10001 through 10100
BKDS-M1820 (SY) : S/N 10001 through 10020


1
2
3
4
5
A
B
C
D
E
F
G
H
CNA2
+5V
GND
CNB2
CNX1
FUSE (+3V)
FUSE (+5V)
+3V
3V
5V
D111 1SS226
D112 1SS226
D113 AY1101W
D114 AY1101W
F1 10A
F2 10A
L1
L2
FL101
E1 E2 E3 E4 E5
T1IN R1OUT T2IN R2OUT T3IN R3OUT T4IN R4OUT
RB101 100k
IC103 TC74VHC541F
RXD2 -CTS2 RXD3 -CTS3
TXD2 -RTS2 TXD3 -RTS3
SLOT1 SLOT2 SLOT3 SLOT4
3/8
APR9-ID
APR9-ABRT
-HRESET
-INITIAL
S101 RESET
D115 1SS226
IC112 TC74HC07AF
D101 VR1101W
D102 VR1101W
RB102 10k
RB103 10k
CGR101 ZP
IC111 MC74F04M
IC115 TC74VHC08F
IC105 TC74AC175F
IC106 TC74VHC163F
IC107 TC74VHC163F
X1 32.0MHz

APR-8 (1/8) Audio Process Board


IC101
MC68302FC16C
101
IC116
16V8-APR8MEMDEC
116
IC102
16V8-APR810DEC
102
IC108
TC74VHC541F
108
S103
RB107
RB108
IC117
22V10-APR8CPUDEC
117
TP112
(DTACK)
IC109
SN74HC259ANS
109
D103
D104
D105
D106
D107
D108
D109
D110
PG1102W
RB109
RB110
RB104
RB105
RB106
TP103
(FLDI)
TP104
(DPI)
TP105
(TO1)
TP106
(TO2)
IC110 (1/4)
MC74F32M
IC110 (2/4)
MC74F32M
IC110 (3/4)
MC74F32M
IC110 (4/4)
MC74F32M
IC111 (1/6)
MC74F04M
TP120
(WRU)
TP121
(WRL)
TP122
(RDU)
TP123
(RDL)
C101
C102
C108
C109
C110
C116
C117
C141
C142
R21
R22
5V
D0-D15 2/8 3/8
A1-A23 2/8 3/8
MEMSEL 2/8
-CSIO 4/8
-CSDIO 4/8
-CSDSP 4/8
-IOWR 3/8
-IORD 3/8
-APL-EN 3/8
-2PSEL 3/8
-2PBSY 3/8
-DTACK 3/8
-AS 3/8
R/-W 3/8
-UDS 3/8
-LDS 3/8
-WRU 2/8 3/8
-WRL 2/8 3/8
-RDU 2/8 3/8
-RDL 2/8 3/8
-FLDINT 3/8
FLDINT 3/8
-2PINT 3/8
8MHZ 4/8

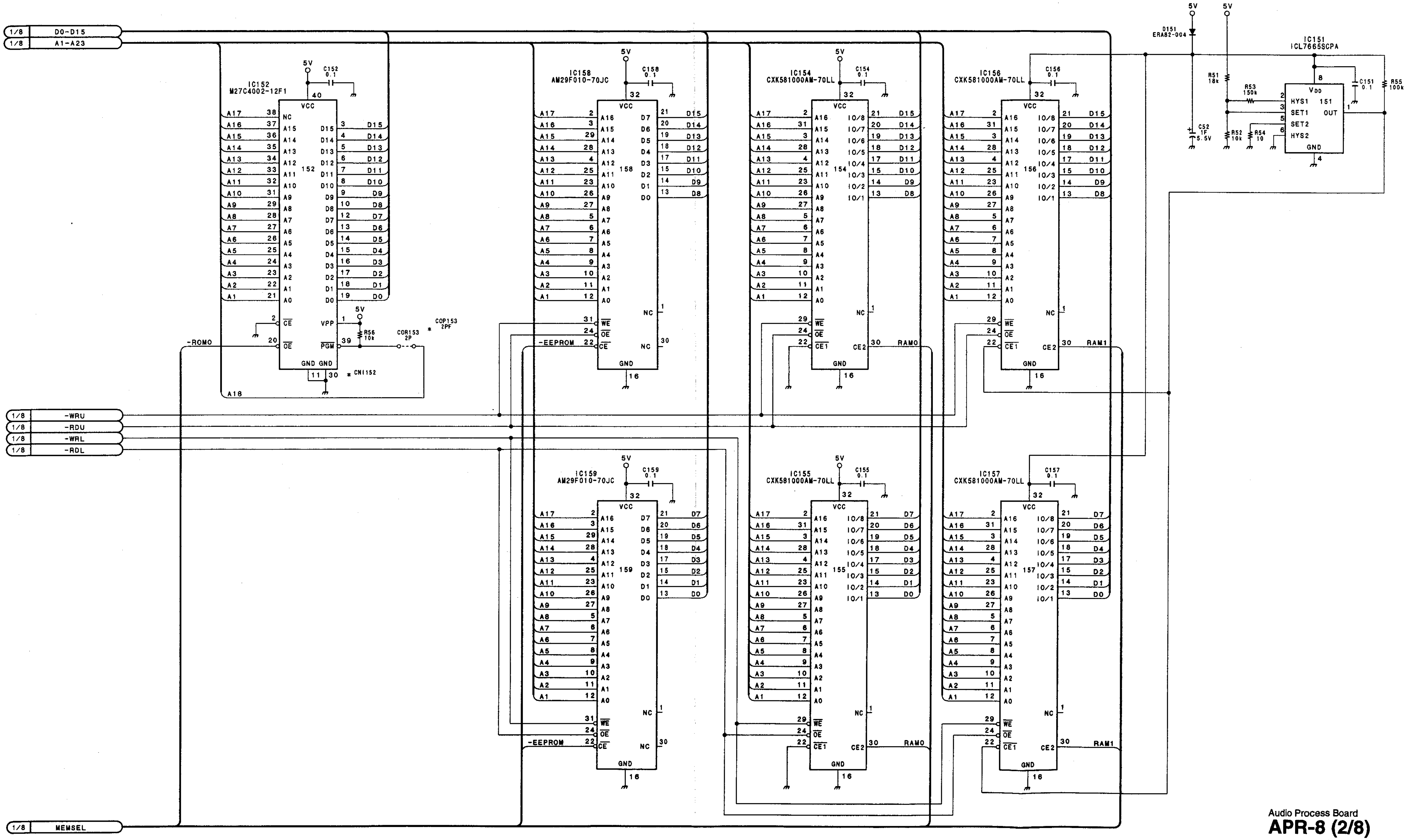
Audio Process Board

APR-8 (1/8)

BKDS-M1810/M1820
BOARD NO. 1-658-385-11
BKDS-M1810 : LOT NO. 506-512
BKDS-M1820 : LOT NO. 511-512
FOR DVS-M1000C
B-¥SJX053-APR8

3-29 (a)

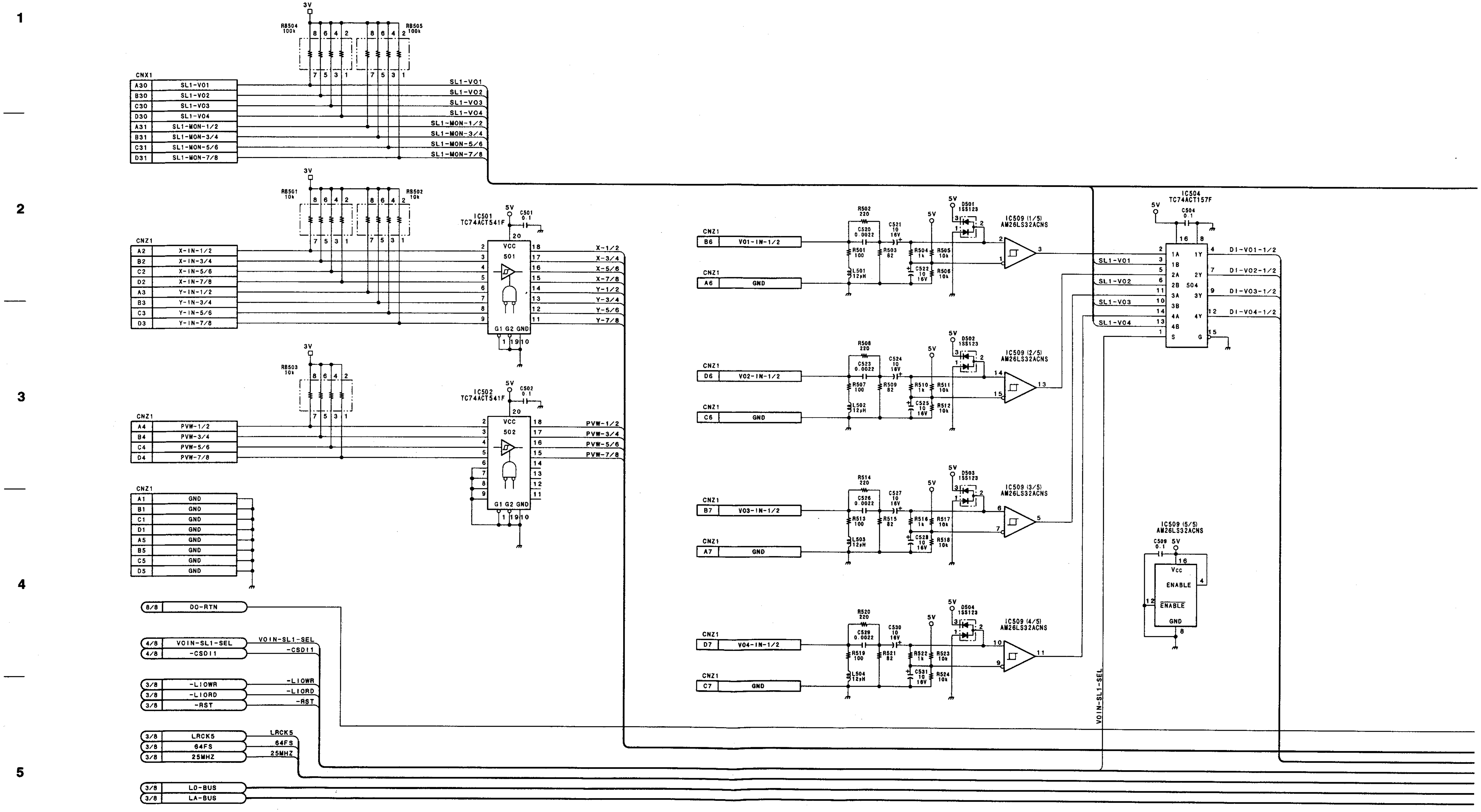
BKDS-M1810 (SY) : S/N 10001 through 10100
BKDS-M1820 (SY) : S/N 10001 through 10020

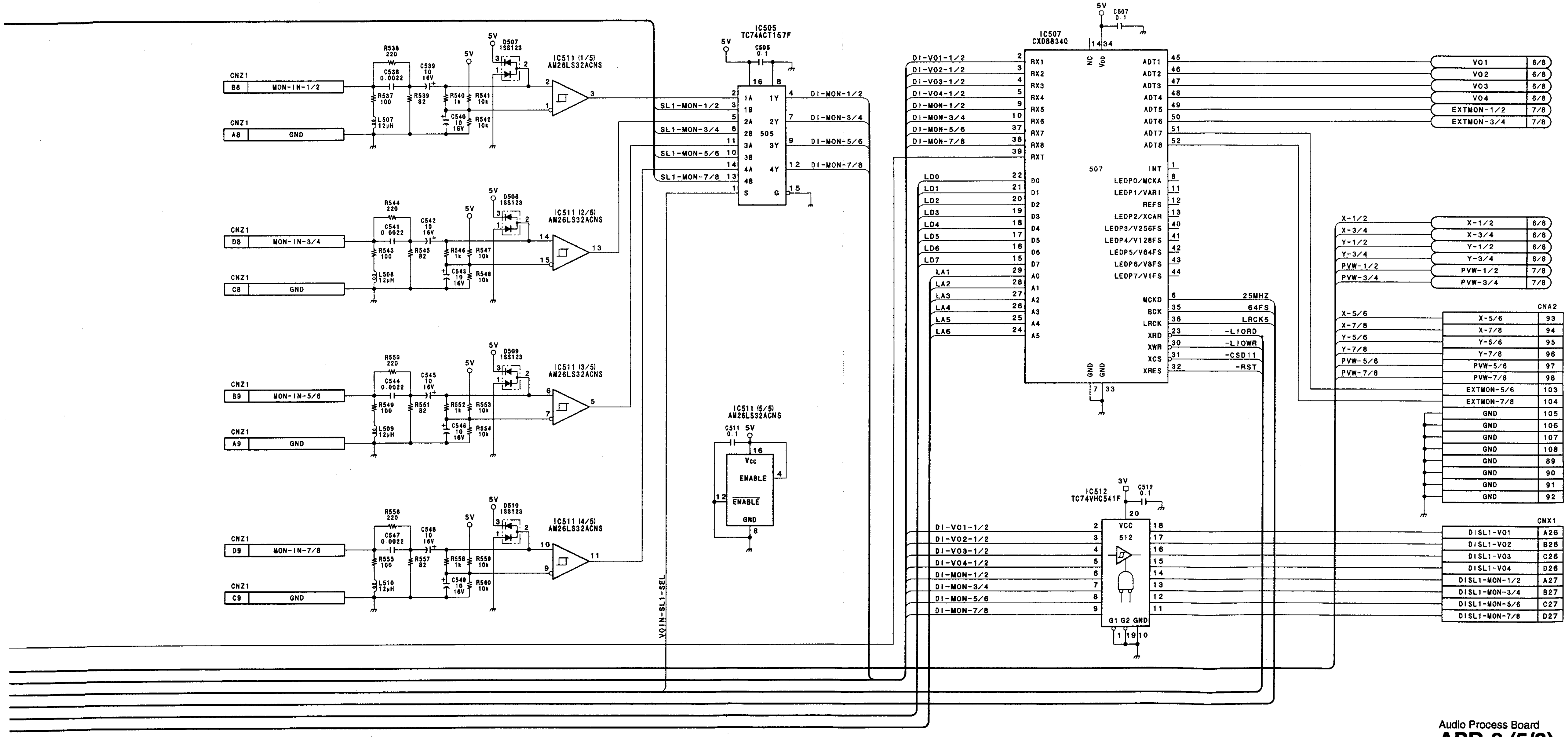

1/8 D0-D15
1/8 A1-A23
1/8 -WRU
1/8 -RDU
1/8 -WRL
1/8 -RDL
1/8 MEMSEL
IC152 M27C4002-12F1
C152 0.1
5V
-ROMO
A18
R56 10k
COR153 2P
COP153 2PF
CN152
IC158 AM29F010-70JC
C158 0.1
-EEPROM
IC159 AM29F010-70JC
C159 0.1
IC154 CXK581000AM-70LL
C154 0.1
RAM0
IC155 CXK581000AM-70LL
C155 0.1
IC156 CXK581000AM-70LL
C156 0.1
RAM1
IC157 CXK581000AM-70LL
C157 0.1
D151 ERA82-004
IC151 ICL7665SCPA
C151 0.1
C52 1F 5.5V
R51 18k
R52 10k
R53 150k
R54 10
R55 100k
VDD
HYS1
SET1
SET2
HYS2
OUT
GND
VCC
NC
WE
OE
CE
CE1
CE2
VPP
PGM
1
2
3
4
5

Audio Process Board
APR-8 (2/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-11
BKDS-M1810 : LOT NO. 506-512
BKDS-M1820 : LOT NO. 511-512
FOR DVS-M1000C
B-¥SJX053-APR8

A | B | C | D | E | F | G | H

BKDS-M1810 (SY) : S/N 10001 through 10100
BKDS-M1820 (SY) : S/N 10001 through 10020

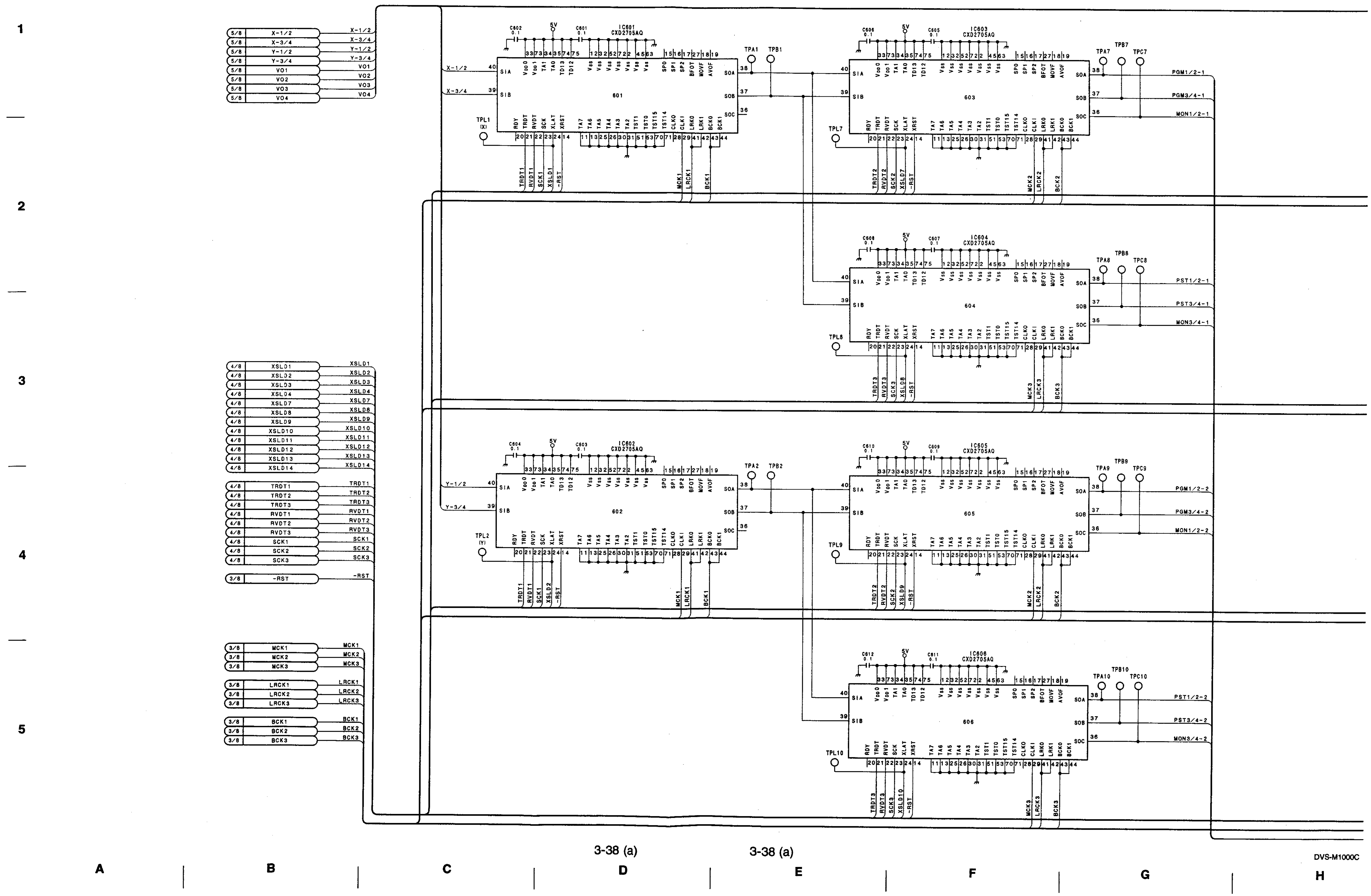

1
2
3
4
5
3V
RB504 100k
RB505 100k
CNX1
A30 SL1-VO1
B30 SL1-VO2
C30 SL1-VO3
D30 SL1-VO4
A31 SL1-MON-1/2
B31 SL1-MON-3/4
C31 SL1-MON-5/6
D31 SL1-MON-7/8
RB501 10k
RB502 10k
CNZ1
A2 X-IN-1/2
B2 X-IN-3/4
C2 X-IN-5/6
D2 X-IN-7/8
A3 Y-IN-1/2
B3 Y-IN-3/4
C3 Y-IN-5/6
D3 Y-IN-7/8
IC501 TC74ACT541F
C501 0.1
5V
X-1/2
X-3/4
X-5/6
X-7/8
Y-1/2
Y-3/4
Y-5/6
Y-7/8
RB503 10k
IC502 TC74ACT541F
C502 0.1
A4 PVW-1/2
B4 PVW-3/4
C4 PVW-5/6
D4 PVW-7/8
A1 GND
B1 GND
C1 GND
D1 GND
A5 GND
B5 GND
C5 GND
D5 GND
8/8 DO-RTN
4/8 VOIN-SL1-SEL
4/8 -CSDI1
3/8 -LIOWR
3/8 -LIORD
3/8 -RST
3/8 LRCK5
3/8 64FS
3/8 25MHZ
3/8 LD-BUS
3/8 LA-BUS
CNZ1
B6 VO1-IN-1/2
A6 GND
D6 VO2-IN-1/2
C6 GND
B7 VO3-IN-1/2
A7 GND
D7 VO4-IN-1/2
C7 GND
R502 220
C520 0.0022
C521 10 16V
R501 100
R503 82
R504 1k
R505 10k
R506 10k
L501 12μH
C522 10 16V
D501 1SS123
IC509 (1/5) AM26LS32ACNS
R508 220
C523 0.0022
C524 10 16V
R507 100
R509 82
R510 1k
R511 10k
R512 10k
L502 12μH
C525 10 16V
D502 1SS123
IC509 (2/5) AM26LS32ACNS
R514 220
C526 0.0022
C527 10 16V
R513 100
R515 82
R516 1k
R517 10k
R518 10k
L503 12μH
C528 10 16V
D503 1SS123
IC509 (3/5) AM26LS32ACNS
R520 220
C529 0.0022
C530 10 16V
R519 100
R521 82
R522 1k
R523 10k
R524 10k
L504 12μH
C531 10 16V
D504 1SS123
IC509 (4/5) AM26LS32ACNS
IC504 TC74ACT157F
C504 0.1
SL1-VO1
SL1-VO2
SL1-VO3
SL1-VO4
DI-VO1-1/2
DI-VO2-1/2
DI-VO3-1/2
DI-VO4-1/2
VOIN-SL1-SEL
IC509 (5/5) AM26LS32ACNS
C509 0.1
Vcc
ENABLE
ENABLE
GND


CNZ1
B8 MON-IN-1/2
A8 GND
D8 MON-IN-3/4
C8 GND
B9 MON-IN-5/6
A9 GND
D9 MON-IN-7/8
C9 GND
IC511 (1/5) AM26LS32ACNS
IC511 (2/5) AM26LS32ACNS
IC511 (3/5) AM26LS32ACNS
IC511 (4/5) AM26LS32ACNS
IC511 (5/5) AM26LS32ACNS
D507 1SS123
D508 1SS123
D509 1SS123
D510 1SS123
IC505 TC74ACT157F
SL1-MON-1/2
SL1-MON-3/4
SL1-MON-5/6
SL1-MON-7/8
DI-MON-1/2
DI-MON-3/4
DI-MON-5/6
DI-MON-7/8
VOIN-SL1-SEL
IC507 CXD8834Q
DI-VO1-1/2
DI-VO2-1/2
DI-VO3-1/2
DI-VO4-1/2
LD0
LD1
LD2
LD3
LD4
LD5
LD6
LD7
LA1
LA2
LA3
LA4
LA5
LA6
25MHZ
64FS
LRCK5
-LIORD
-LIOWR
-CSD11
-RST
IC512 TC74VHC541F
VO1 6/8
VO2 6/8
VO3 6/8
VO4 6/8
EXTMON-1/2 7/8
EXTMON-3/4 7/8
X-1/2 6/8
X-3/4 6/8
Y-1/2 6/8
Y-3/4 6/8
PVW-1/2 7/8
PVW-3/4 7/8
CNA2
X-5/6 93
X-7/8 94
Y-5/6 95
Y-7/8 96
PVW-5/6 97
PVW-7/8 98
EXTMON-5/6 103
EXTMON-7/8 104
GND 105
GND 106
GND 107
GND 108
GND 89
GND 90
GND 91
GND 92
CNX1
DISL1-VO1 A26
DISL1-VO2 B26
DISL1-VO3 C26
DISL1-VO4 D26
DISL1-MON-1/2 A27
DISL1-MON-3/4 B27
DISL1-MON-5/6 C27
DISL1-MON-7/8 D27
1
2
3
4
5
I
J
K
L
M
N
O
P

Audio Process Board
APR-8 (5/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-11
BKDS-M1810 : LOT NO. 506-512
BKDS-M1820 : LOT NO. 511-512
FOR DVS-M1000C
B-¥SJX053-APR8

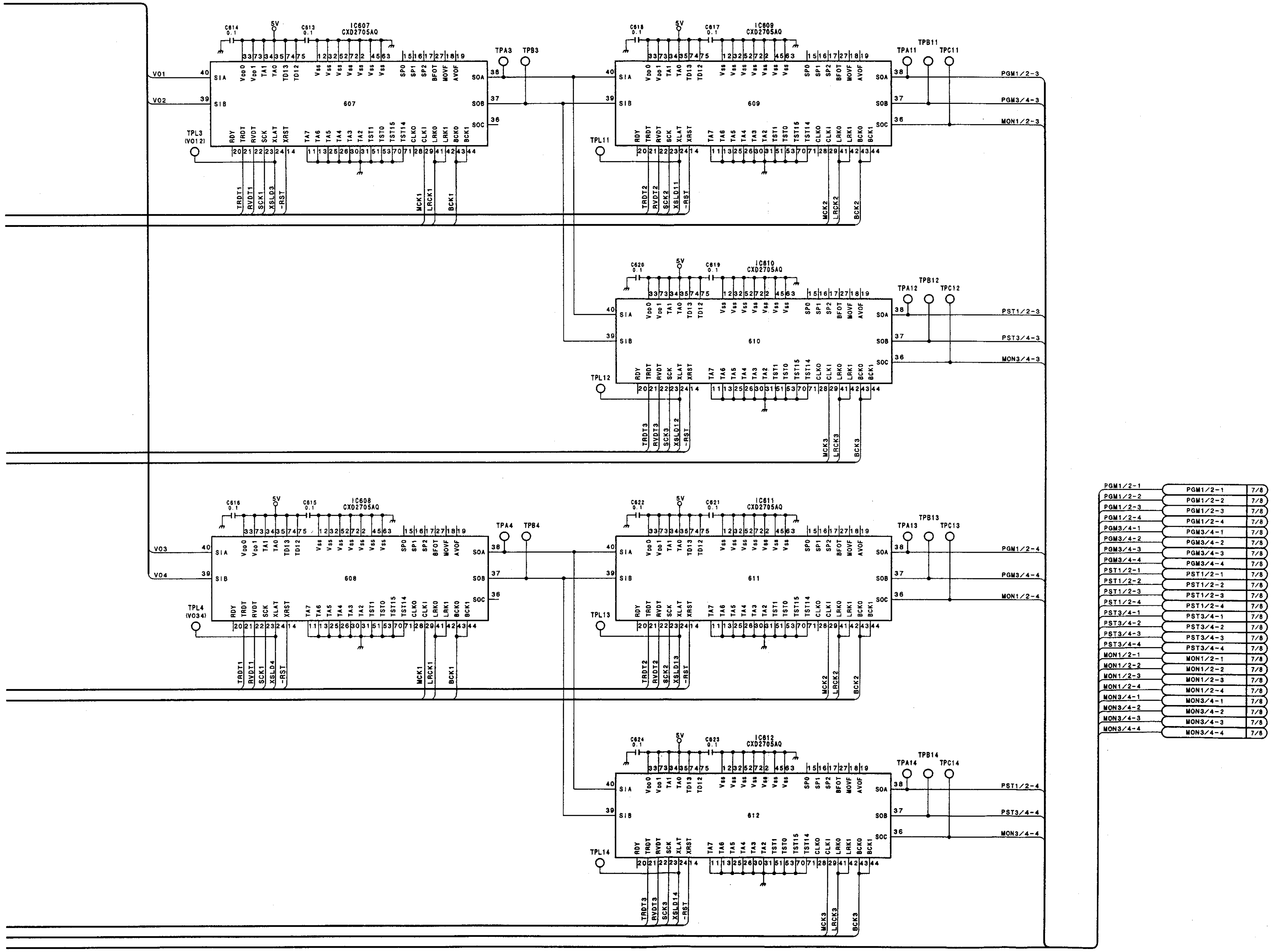
Audio Process Board APR-8 (6/8) APR-8 (6/8) Audio Process Board

BKDS-M1810 (SY) : S/N 10001 through 10100
BKDS-M1820 (SY) : S/N 10001 through 10020



1
2
3
4
5
A
B
C
D
E
F
G
H
5/8 X-1/2
5/8 X-3/4
5/8 Y-1/2
5/8 Y-3/4
5/8 VO1
5/8 VO2
5/8 VO3
5/8 VO4
4/8 XSLD1
4/8 XSLD2
4/8 XSLD3
4/8 XSLD4
4/8 XSLD7
4/8 XSLD8
4/8 XSLD9
4/8 XSLD10
4/8 XSLD11
4/8 XSLD12
4/8 XSLD13
4/8 XSLD14
4/8 TRDT1
4/8 TRDT2
4/8 TRDT3
4/8 RVDT1
4/8 RVDT2
4/8 RVDT3
4/8 SCK1
4/8 SCK2
4/8 SCK3
3/8 -RST
3/8 MCK1
3/8 MCK2
3/8 MCK3
3/8 LRCK1
3/8 LRCK2
3/8 LRCK3
3/8 BCK1
3/8 BCK2
3/8 BCK3
IC601 CXD2705AQ
IC602 CXD2705AQ
IC603 CXD2705AQ
IC604 CXD2705AQ
IC605 CXD2705AQ
IC606 CXD2705AQ
601
602
603
604
605
606
C601 0.1
C602 0.1
C603 0.1
C604 0.1
C605 0.1
C606 0.1
C607 0.1
C608 0.1
C609 0.1
C610 0.1
C611 0.1
C612 0.1
5V
SIA
SIB
SOA
SOB
SOC
VDD0
VDD1
TA1
TA0
TD13
TD12
VSS
SP0
SP1
SP2
BFOT
MOVF
AVOF
RDY
TRDT
RVDT
SCK
XLAT
XRST
TA7
TA6
TA5
TA4
TA3
TA2
TST1
TST0
TST15
TST14
CLKO
CLKI
LRKO
LRKI
BCKO
BCKI
TPL1 (X)
TPL2 (Y)
TPL7
TPL8
TPL9
TPL10
TPA1
TPB1
TPA2
TPB2
TPA7
TPB7
TPC7
TPA8
TPB8
TPC8
TPA9
TPB9
TPC9
TPA10
TPB10
TPC10
PGM1/2-1
PGM3/4-1
MON1/2-1
PST1/2-1
PST3/4-1
MON3/4-1
PGM1/2-2
PGM3/4-2
MON1/2-2
PST1/2-2
PST3/4-2
MON3/4-2
TRDT1
RVDT1
SCK1
XSLD1
XSLD2
-RST
MCK1
LRCK1
BCK1
TRDT2
RVDT2
SCK2
XSLD7
XSLD9
MCK2
LRCK2
BCK2
TRDT3
RVDT3
SCK3
XSLD8
XSLD10
MCK3
LRCK3
BCK3

3-38 (a) 3-38 (a)

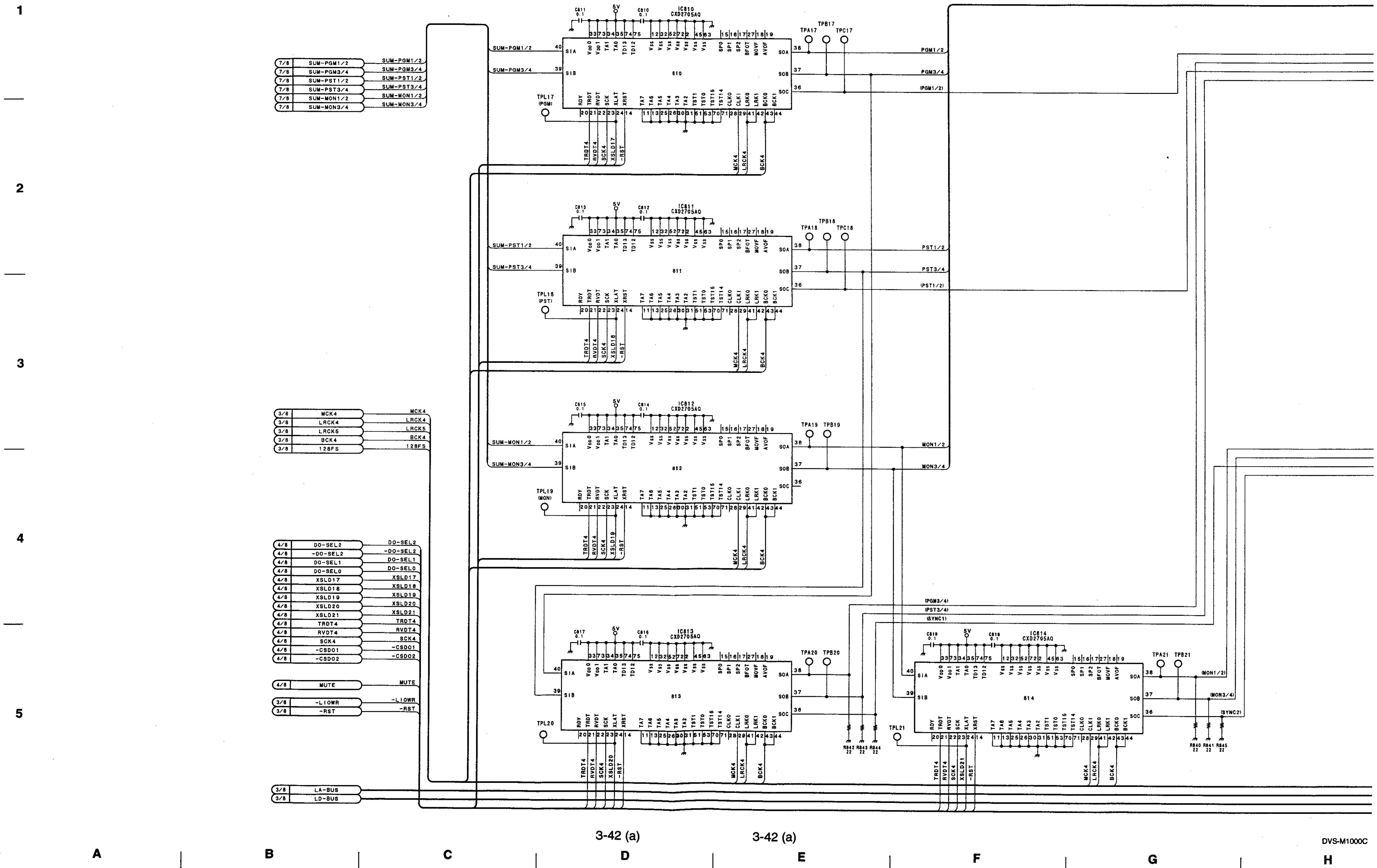

IC607
CXD2705AQ
IC608
CXD2705AQ
IC609
CXD2705AQ
IC610
CXD2705AQ
IC611
CXD2705AQ
IC612
CXD2705AQ
C613 0.1
C614 0.1
C615 0.1
C616 0.1
C617 0.1
C618 0.1
C619 0.1
C620 0.1
C621 0.1
C622 0.1
C623 0.1
C624 0.1
5V
VO1
VO2
VO3
VO4
TPL3 (VO12)
TPL4 (VO34)
TPL11
TPL12
TPL13
TPL14
TPA3
TPB3
TPA4
TPB4
TPA11
TPB11
TPC11
TPA12
TPB12
TPC12
TPA13
TPB13
TPC13
TPA14
TPB14
TPC14
SIA
SIB
SOA
SOB
SOC
VDD0
VDD1
TA1
TA0
TD13
TD12
VSS
SP0
SP1
SP2
BFOT
MOVF
AVOF
RDY
TRDT
RVDT
SCK
XLAT
XRST
TA7
TA6
TA5
TA4
TA3
TA2
TST1
TST0
TST15
TST14
CLKO
CLKI
LRKO
LRK1
BCKO
BCK1
TRDT1
RVDT1
SCK1
XSLD3
XSLD4
-RST
MCK1
LRCK1
BCK1
TRDT2
RVDT2
SCK2
XSLD11
XSLD13
MCK2
LRCK2
BCK2
TRDT3
RVDT3
SCK3
XSLD12
XSLD14
MCK3
LRCK3
BCK3
PGM1/2-3
PGM3/4-3
MON1/2-3
PST1/2-3
PST3/4-3
MON3/4-3
PGM1/2-4
PGM3/4-4
MON1/2-4
PST1/2-4
PST3/4-4
MON3/4-4
PGM1/2-1 PGM1/2-1 7/8
PGM1/2-2 PGM1/2-2 7/8
PGM1/2-3 PGM1/2-3 7/8
PGM1/2-4 PGM1/2-4 7/8
PGM3/4-1 PGM3/4-1 7/8
PGM3/4-2 PGM3/4-2 7/8
PGM3/4-3 PGM3/4-3 7/8
PGM3/4-4 PGM3/4-4 7/8
PST1/2-1 PST1/2-1 7/8
PST1/2-2 PST1/2-2 7/8
PST1/2-3 PST1/2-3 7/8
PST1/2-4 PST1/2-4 7/8
PST3/4-1 PST3/4-1 7/8
PST3/4-2 PST3/4-2 7/8
PST3/4-3 PST3/4-3 7/8
PST3/4-4 PST3/4-4 7/8
MON1/2-1 MON1/2-1 7/8
MON1/2-2 MON1/2-2 7/8
MON1/2-3 MON1/2-3 7/8
MON1/2-4 MON1/2-4 7/8
MON3/4-1 MON3/4-1 7/8
MON3/4-2 MON3/4-2 7/8
MON3/4-3 MON3/4-3 7/8
MON3/4-4 MON3/4-4 7/8

Audio Process Board
APR-8 (6/8)
BKDS-M1810/M1820
BOARD NO. 1-658-385-11
BKDS-M1810 : LOT NO. 506-512
BKDS-M1820 : LOT NO. 511-512
FOR DVS-M1000C
B-¥SJX053-APR8

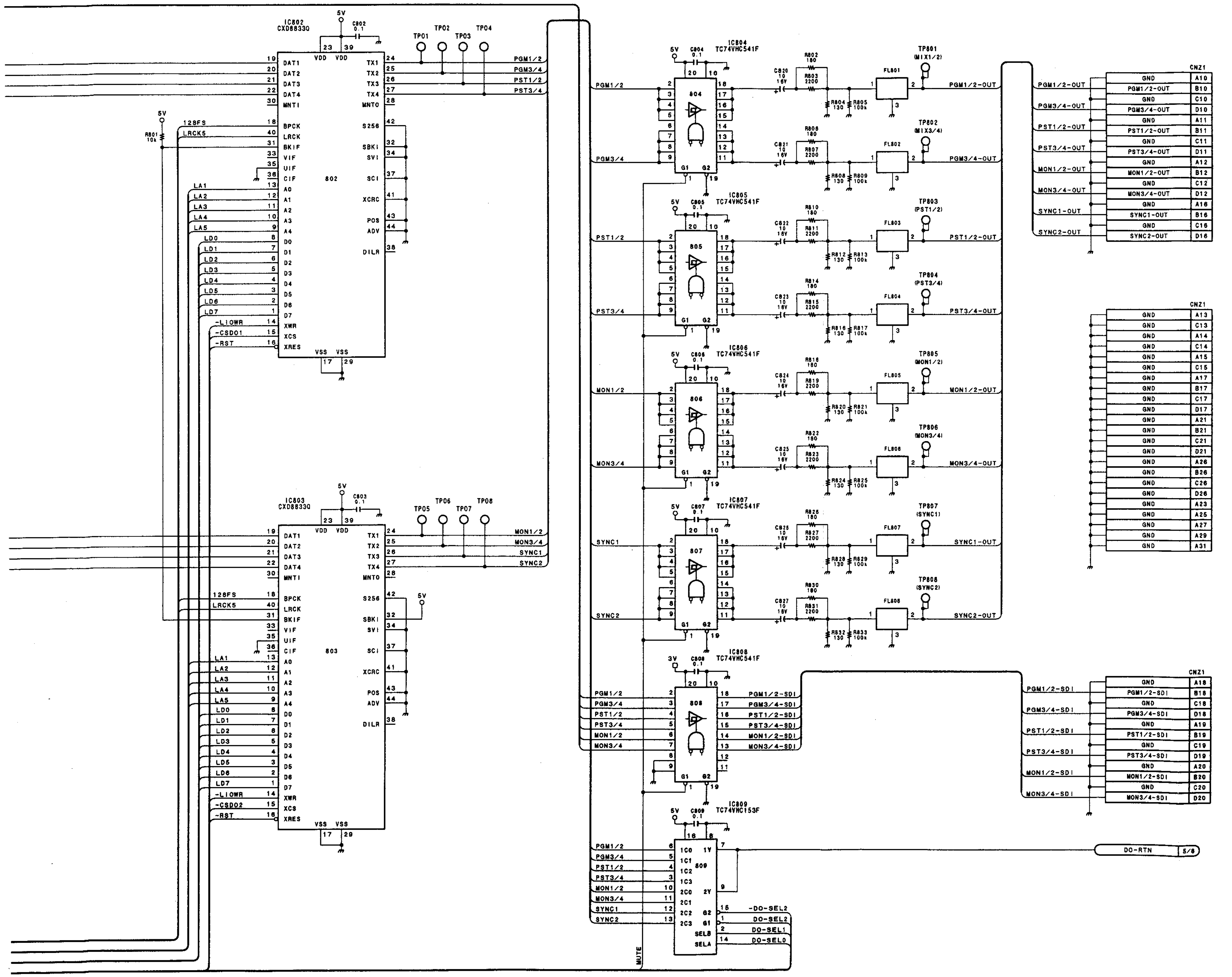
I J K L M N O P

APR-8 (8/8) Audio Process Board

BKDS-M1810 (SY) : S/N 10001 through 10100
BKDS-M1820 (SY) : S/N 10001 through 10020


1
2
3
4
5
A
B
C
D
E
F
G
H
IC810 CXD2705AQ
IC811 CXD2705AQ
IC812 CXD2705AQ
IC813 CXD2705AQ
IC814 CXD2705AQ
C811 0.1
C810 0.1
C813 0.1
C812 0.1
C815 0.1
C814 0.1
C817 0.1
C816 0.1
C819 0.1
C818 0.1
5V
7/8 SUM-PGM1/2
7/8 SUM-PGM3/4
7/8 SUM-PST1/2
7/8 SUM-PST3/4
7/8 SUM-MON1/2
7/8 SUM-MON3/4
3/8 MCK4
3/8 LRCK4
3/8 LRCK5
3/8 BCK4
3/8 128FS
4/8 DO-SEL2
4/8 -DO-SEL2
4/8 DO-SEL1
4/8 DO-SEL0
4/8 XSLD17
4/8 XSLD18
4/8 XSLD19
4/8 XSLD20
4/8 XSLD21
4/8 TRDT4
4/8 RVDT4
4/8 SCK4
4/8 -CSDO1
4/8 -CSDO2
4/8 MUTE
3/8 -LIOWR
3/8 -RST
3/8 LA-BUS
3/8 LD-BUS
SIA
SIB
SOA
SOB
SOC
VDD0 VDD1 TA1 TA0 TD13 TD12 VSS SP0 SP1 SP2 BFOT MOVF AVOF
RDY TRDT RVDT SCK XLAT XRST TA7 TA6 TA5 TA4 TA3 TA2 TST1 TST0 TST15 TST14 CLKO CLKI LRK0 LRK1 BCK0 BCK1
TPL17 (PGM)
TPL18 (PST)
TPL19 (MON)
TPL20
TPL21
TPA17 TPB17 TPC17
TPA18 TPB18 TPC18
TPA19 TPB19
TPA20 TPB20
TPA21 TPB21
PGM1/2
PGM3/4
(PGM1/2)
PST1/2
PST3/4
(PST1/2)
MON1/2
MON3/4
(PGM3/4)
(PST3/4)
(SYNC1)
(MON1/2)
(MON3/4)
(SYNC2)
TRDT4 RVDT4 SCK4 XSLD17 -RST
TRDT4 RVDT4 SCK4 XSLD18 -RST
TRDT4 RVDT4 SCK4 XSLD19 -RST
TRDT4 RVDT4 SCK4 XSLD20 -RST
TRDT4 RVDT4 SCK4 XSLD21 -RST
MCK4 LRCK4 BCK4
R842 22
R843 22
R844 22
R840 22
R841 22
R845 22

3-42 (a)


IC802 CXD8833Q
IC803 CXD8833Q
5V
C802 0.1
C803 0.1
VDD VDD
VSS VSS
DAT1
DAT2
DAT3
DAT4
MNTI
BPCK
LRCK
BKIF
VIF
UIF
CIF
A0 A1 A2 A3 A4
D0 D1 D2 D3 D4 D5 D6 D7
XWR
XCS
XRES
TX1 TX2 TX3 TX4
MNTO
S256
SBKI
SVI
SCI
XCRC
POS
ADV
DILR
R801 10k
128FS
LRCK5
LA1 LA2 LA3 LA4 LA5
LD0 LD1 LD2 LD3 LD4 LD5 LD6 LD7
-L1OWR
-CSDO1
-CSDO2
-RST
TP01 TP02 TP03 TP04
TP05 TP06 TP07 TP08
PGM1/2
PGM3/4
PST1/2
PST3/4
MON1/2
MON3/4
SYNC1
SYNC2
IC804 TC74VHC541F
IC805 TC74VHC541F
IC806 TC74VHC541F
IC807 TC74VHC541F
IC808 TC74VHC541F
IC809 TC74VHC153F
C804 0.1
C805 0.1
C806 0.1
C807 0.1
C808 0.1
C809 0.1
3V
G1 G2
C820 10 16V
C821 10 16V
C822 10 16V
C823 10 16V
C824 10 16V
C825 10 16V
C826 10 16V
C827 10 16V
R802 180
R803 2200
R804 130
R805 100k
R806 180
R807 2200
R808 130
R809 100k
R810 180
R811 2200
R812 130
R813 100k
R814 180
R815 2200
R816 130
R817 100k
R818 180
R819 2200
R820 130
R821 100k
R822 180
R823 2200
R824 130
R825 100k
R826 180
R827 2200
R828 130
R829 100k
R830 180
R831 2200
R832 130
R833 100k
FL801
FL802
FL803
FL804
FL805
FL806
FL807
FL808
TP801 (MIX1/2)
TP802 (MIX3/4)
TP803 (PST1/2)
TP804 (PST3/4)
TP805 (MON1/2)
TP806 (MON3/4)
TP807 (SYNC1)
TP808 (SYNC2)
PGM1/2-OUT
PGM3/4-OUT
PST1/2-OUT
PST3/4-OUT
MON1/2-OUT
MON3/4-OUT
SYNC1-OUT
SYNC2-OUT
PGM1/2-SDI
PGM3/4-SDI
PST1/2-SDI
PST3/4-SDI
MON1/2-SDI
MON3/4-SDI
1C0 1C1 1C2 1C3
2C0 2C1 2C2 2C3
1Y 2Y
G2 G1
SELB
SELA
-DO-SEL2
DO-SEL2
DO-SEL1
DO-SEL0
MUTE
DO-RTN 5/8
CNZ1
GND A10
PGM1/2-OUT B10
GND C10
PGM3/4-OUT D10
GND A11
PST1/2-OUT B11
GND C11
PST3/4-OUT D11
GND A12
MON1/2-OUT B12
GND C12
MON3/4-OUT D12
GND A16
SYNC1-OUT B16
GND C16
SYNC2-OUT D16
CNZ1
GND A13
GND C13
GND A14
GND C14
GND A15
GND C15
GND A17
GND B17
GND C17
GND D17
GND A21
GND B21
GND C21
GND D21
GND A26
GND B26
GND C26
GND D26
GND A23
GND A25
GND A27
GND A29
GND A31
CNZ1
GND A18
PGM1/2-SDI B18
GND C18
PGM3/4-SDI D18
GND A19
PST1/2-SDI B19
GND C19
PST3/4-SDI D19
GND A20
MON1/2-SDI B20
GND C20
MON3/4-SDI D20
1
2
3
4
5

Audio Process Board

APR-8 (8/8)

BKDS-M1810/M1820
BOARD NO. 1-658-385-11
BKDS-M1810 : LOT NO. 506-512
BKDS-M1820 : LOT NO. 511-512
FOR DVS-M1000C
B-¥SJX053-APR8

BKDS-M1820 (SY) : S/N 10001 and Higher

1

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4

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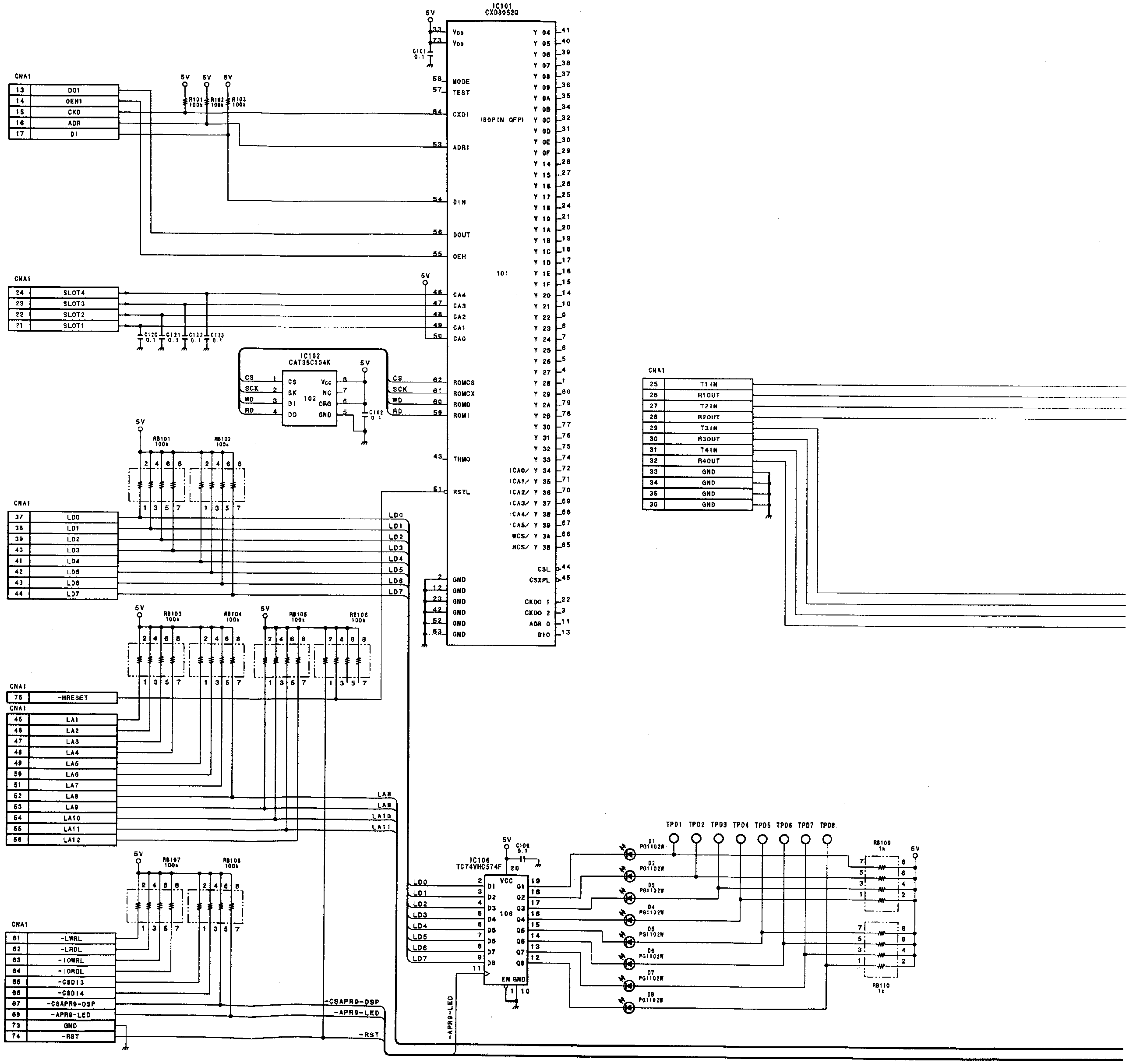
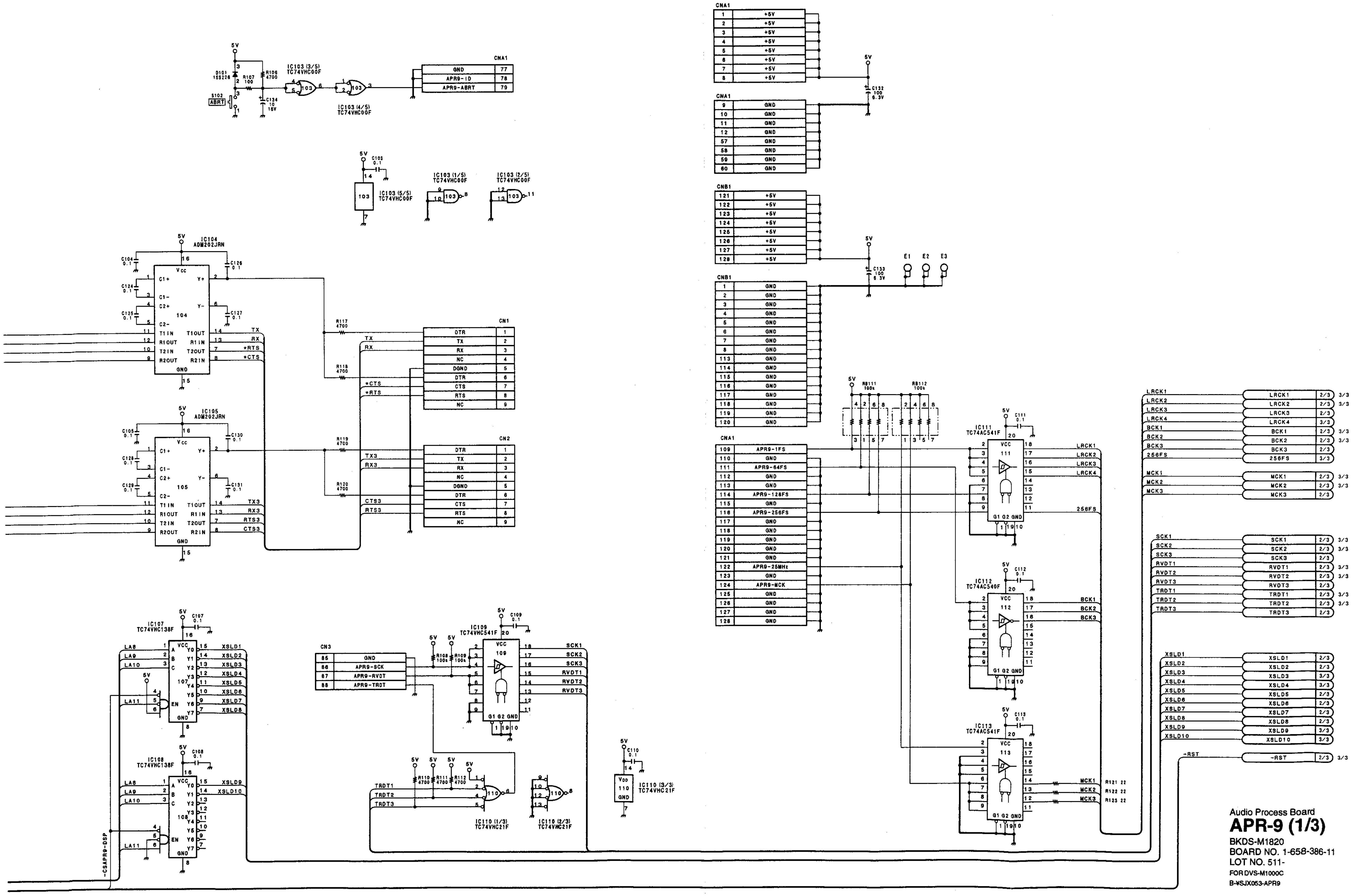
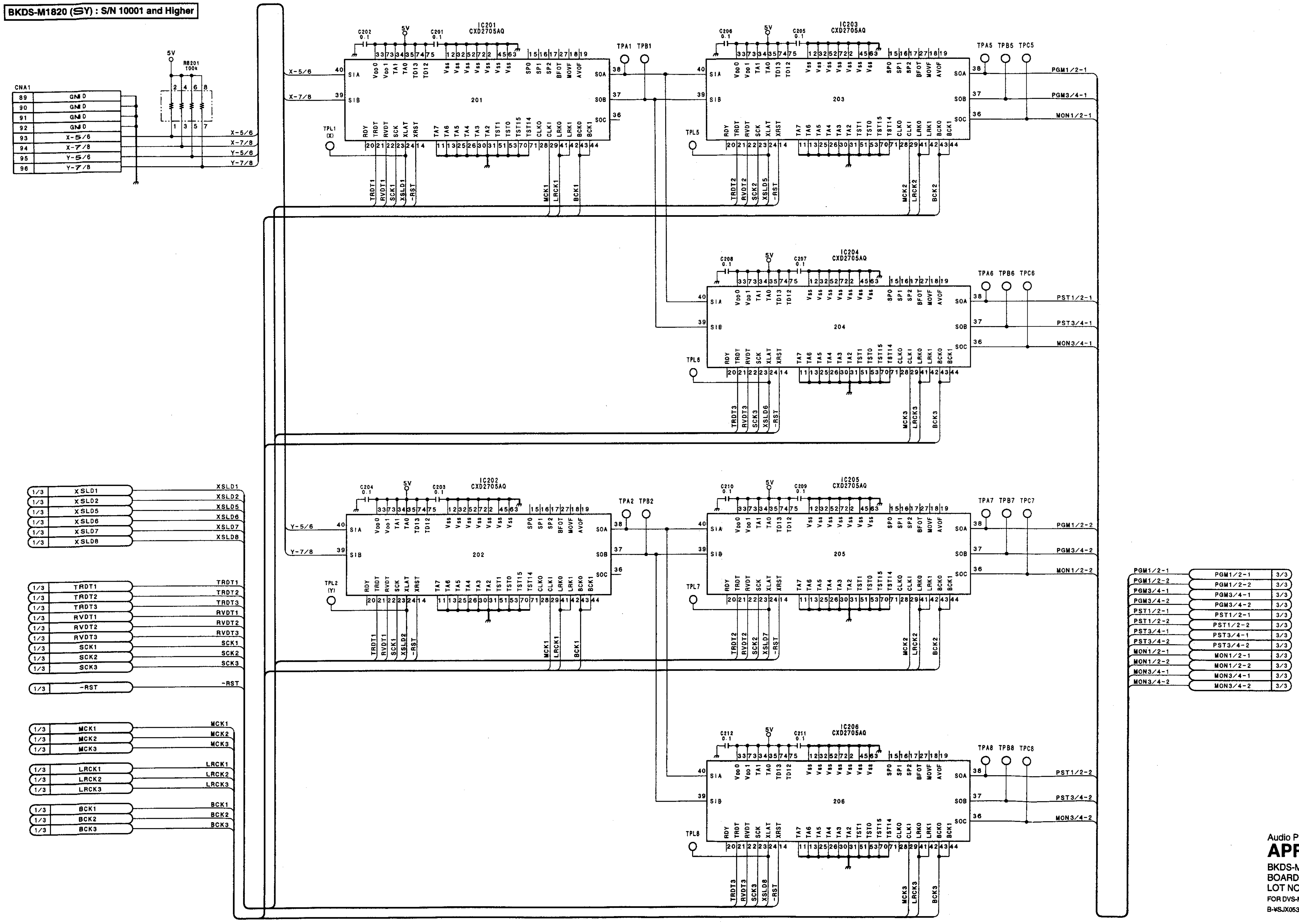

IC101
CXD8052Q
(80PIN QFP)
101
VDD
MODE
TEST
CXDI
ADRI
DIN
DOUT
OEH
CA4
CA3
CA2
CA1
CA0
ROMCS
ROMCX
ROMO
ROMI
THMO
RSTL
GND
CSL
CSXPL
CKDO 1
CKDO 2
ADR O
DIO
ICA0/
ICA1/
ICA2/
ICA3/
ICA4/
ICA5/
WCS/
RCS/
5V
C101 0.1
CNA1
DO1
OEH1
CKD
ADR
DI
R101 100k
R102 100k
R103 100k
SLOT4
SLOT3
SLOT2
SLOT1
C120 0.1
C121 0.1
C122 0.1
C123 0.1
IC102
CAT35C104K
102
CS
SK
DI
DO
Vcc
NC
ORG
GND
WD
RD
SCK
C102 0.1
RB101 100k
RB102 100k
RB103 100k
RB104 100k
RB105 100k
RB106 100k
RB107 100k
RB108 100k
LD0
LD1
LD2
LD3
LD4
LD5
LD6
LD7
-HRESET
LA1
LA2
LA3
LA4
LA5
LA6
LA7
LA8
LA9
LA10
LA11
LA12
-LWRL
-LRDL
-IOWRL
-IORDL
-CSD13
-CSD14
-CSAPR9-DSP
-APR9-LED
GND
-RST
IC106
TC74VHC574F
106
VCC
EN GND
C106 0.1
TPD1
TPD2
TPD3
TPD4
TPD5
TPD6
TPD7
TPD8
D1 PG1102W
D2 PG1102W
D3 PG1102W
D4 PG1102W
D5 PG1102W
D6 PG1102W
D7 PG1102W
D8 PG1102W
RB109 1k
RB110 1k
T1IN
R1OUT
T2IN
R2OUT
T3IN
R3OUT
T4IN
R4OUT

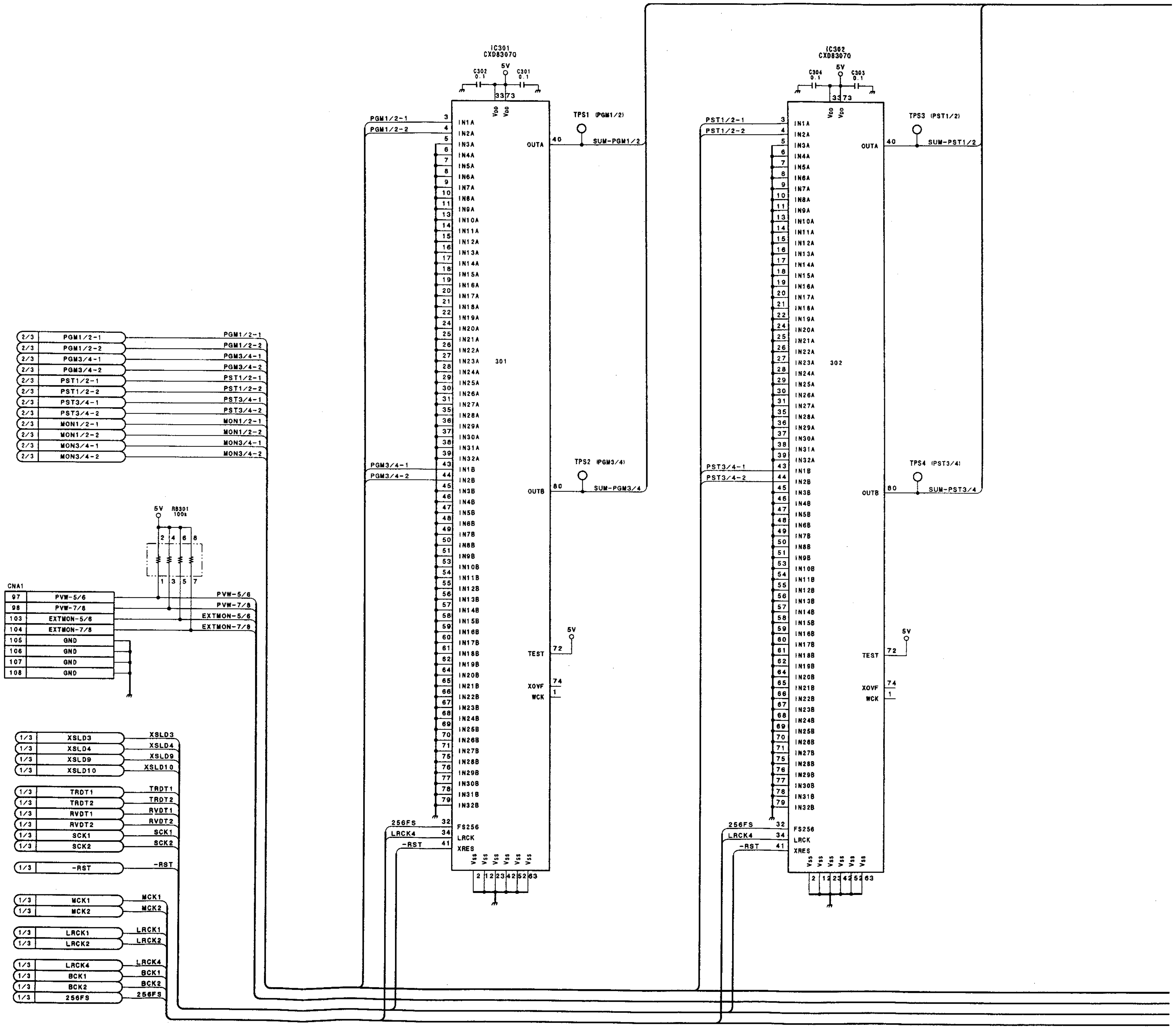

CNA1
CNB1
CN1
CN2
CN3
IC103 (1/5) TC74VHC00F
IC103 (2/5) TC74VHC00F
IC103 (3/5) TC74VHC00F
IC103 (4/5) TC74VHC00F
IC103 (5/5) TC74VHC00F
IC104 ADM202JRN
IC105 ADM202JRN
IC107 TC74VHC138F
IC108 TC74VHC138F
IC109 TC74VHC541F
IC110 (1/3) TC74VHC21F
IC110 (2/3) TC74VHC21F
IC110 (3/3) TC74VHC21F
IC111 TC74AC541F
IC112 TC74AC540F
IC113 TC74AC541F
D101 1SS226
S102 ABRT
APR9-ID
APR9-ABRT
APR9-1FS
APR9-64FS
APR9-128FS
APR9-256FS
APR9-25MHz
APR9-MCK
APR9-SCK
APR9-RVDT
APR9-TRDT
TX
RX
*RTS
*CTS
TX3
RX3
RTS3
CTS3
DTR
DGND
NC
LRCK1
LRCK2
LRCK3
LRCK4
BCK1
BCK2
BCK3
256FS
MCK1
MCK2
MCK3
SCK1
SCK2
SCK3
RVDT1
RVDT2
RVDT3
TRDT1
TRDT2
TRDT3
XSLD1
XSLD2
XSLD3
XSLD4
XSLD5
XSLD6
XSLD7
XSLD8
XSLD9
XSLD10
-RST
-CSAPR9-DSP
LA8
LA9
LA10
LA11
E1
E2
E3
5V
+5V
GND
2/3
3/3

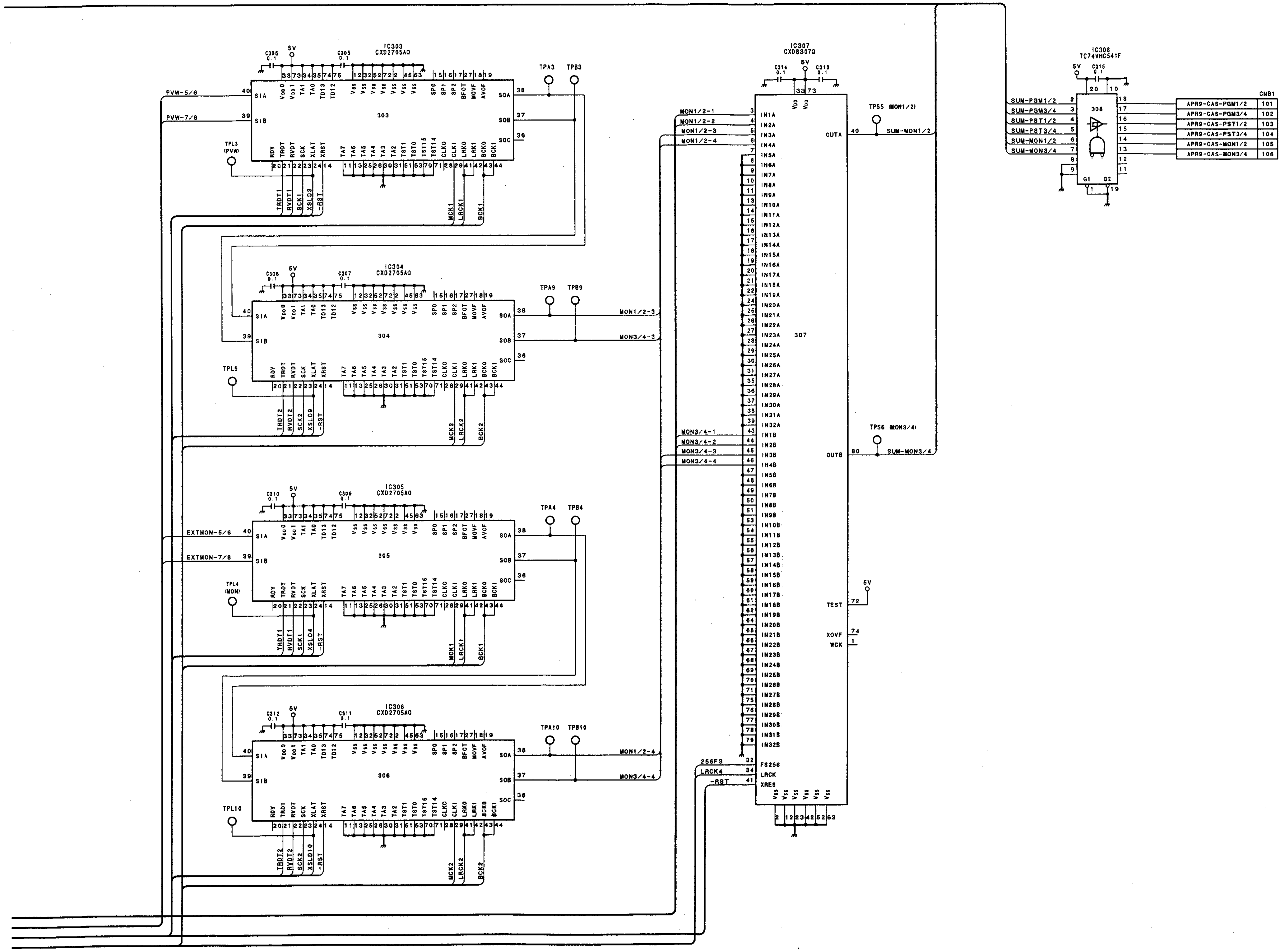
Audio Process Board
APR-9 (1/3)
BKDS-M1820
BOARD NO. 1-658-386-11
LOT NO. 511-
FOR DVS-M1000C
B-WSJX053-APR9


BKDS-M1820 (SY) : S/N 10001 and Higher
CNA1
89 GND
90 GND
91 GND
92 GND
93 X-5/6
94 X-7/8
95 Y-5/6
96 Y-7/8
5V
RB201 100k
X-5/6
X-7/8
Y-5/6
Y-7/8
IC201 CXD2705AQ
IC202 CXD2705AQ
IC203 CXD2705AQ
IC204 CXD2705AQ
IC205 CXD2705AQ
IC206 CXD2705AQ
C201 0.1
C202 0.1
C203 0.1
C204 0.1
C205 0.1
C206 0.1
C207 0.1
C208 0.1
C209 0.1
C210 0.1
C211 0.1
C212 0.1
5V
SIA
SIB
SOA
SOB
SOC
VDD0
VDD1
TA1
TA0
TD13
TD12
VSS
SP0
SP1
SP2
BFOT
MOVF
AVOF
RDY
TRDT
RVDT
SCK
XLAT
XRST
TA7
TA6
TA5
TA4
TA3
TA2
TST1
TST0
TST15
TST14
CLKO
CLKI
LRKO
LRK1
BCKO
BCK1
TPA1
TPB1
TPA2
TPB2
TPA5
TPB5
TPC5
TPA6
TPB6
TPC6
TPA7
TPB7
TPC7
TPA8
TPB8
TPC8
TPL1 (X)
TPL2 (Y)
TPL5
TPL6
TPL7
TPL8
PGM1/2-1
PGM3/4-1
MON1/2-1
PST1/2-1
PST3/4-1
MON3/4-1
PGM1/2-2
PGM3/4-2
MON1/2-2
PST1/2-2
PST3/4-2
MON3/4-2
TRDT1
RVDT1
SCK1
XSLD1
-RST
MCK1
LRCK1
BCK1
TRDT2
RVDT2
SCK2
XSLD5
MCK2
LRCK2
BCK2
TRDT3
RVDT3
SCK3
XSLD6
MCK3
LRCK3
BCK3
XSLD2
XSLD7
XSLD8
1/3 XSLD1
1/3 XSLD2
1/3 XSLD5
1/3 XSLD6
1/3 XSLD7
1/3 XSLD8
1/3 TRDT1
1/3 TRDT2
1/3 TRDT3
1/3 RVDT1
1/3 RVDT2
1/3 RVDT3
1/3 SCK1
1/3 SCK2
1/3 SCK3
1/3 -RST
1/3 MCK1
1/3 MCK2
1/3 MCK3
1/3 LRCK1
1/3 LRCK2
1/3 LRCK3
1/3 BCK1
1/3 BCK2
1/3 BCK3
PGM1/2-1 3/3
PGM1/2-2 3/3
PGM3/4-1 3/3
PGM3/4-2 3/3
PST1/2-1 3/3
PST1/2-2 3/3
PST3/4-1 3/3
PST3/4-2 3/3
MON1/2-1 3/3
MON1/2-2 3/3
MON3/4-1 3/3
MON3/4-2 3/3
201
202
203
204
205
206
1
2
3
4
5

Audio Process Board
APR-9 (2/3)
BKDS-M1820
BOARD NO. 1-658-386-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-APR9

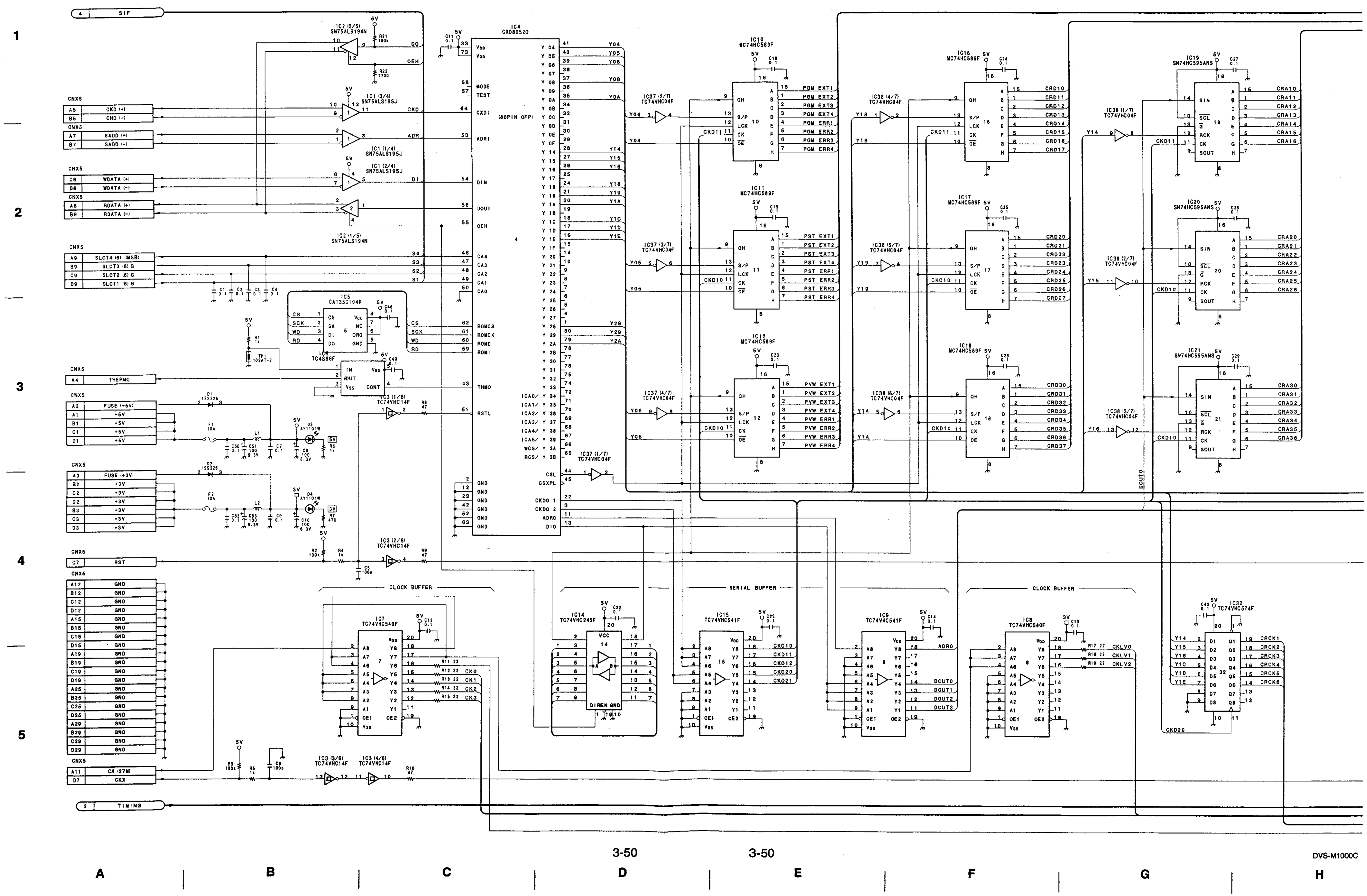
BKDS-M1820 (SY) : S/N 10001 and Higher

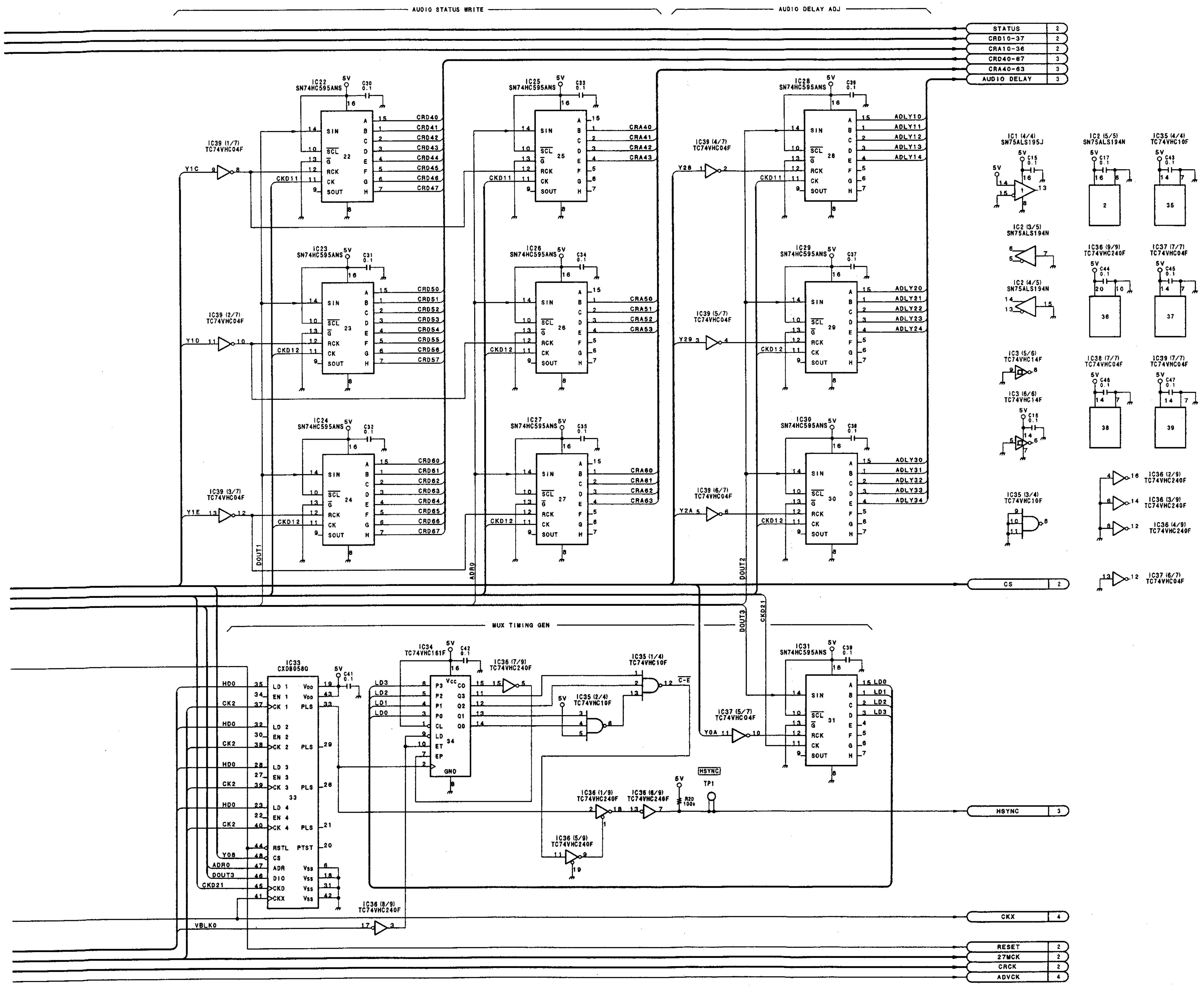

IC301
CXD8307Q
IC302
CXD8307Q
5V
C302 0.1
C301 0.1
C304 0.1
C303 0.1
VDD
VSS
301
302
IN1A
IN32A
IN1B
IN32B
OUTA
OUTB
TEST
XOVF
WCK
FS256
LRCK
XRES
TPS1 (PGM1/2)
TPS2 (PGM3/4)
TPS3 (PST1/2)
TPS4 (PST3/4)
SUM-PGM1/2
SUM-PGM3/4
SUM-PST1/2
SUM-PST3/4
PGM1/2-1
PGM1/2-2
PGM3/4-1
PGM3/4-2
PST1/2-1
PST1/2-2
PST3/4-1
PST3/4-2
MON1/2-1
MON1/2-2
MON3/4-1
MON3/4-2
2/3
5V
RB301
100k
CNA1
97
98
103
104
105
106
107
108
PVW-5/6
PVW-7/8
EXTMON-5/6
EXTMON-7/8
GND
1/3
XSLD3
XSLD4
XSLD9
XSLD10
TRDT1
TRDT2
RVDT1
RVDT2
SCK1
SCK2
-RST
MCK1
MCK2
LRCK1
LRCK2
LRCK4
BCK1
BCK2
256FS


IC303
CXD2705AQ
IC304
CXD2705AQ
IC305
CXD2705AQ
IC306
CXD2705AQ
IC307
CXD8307Q
IC308
TC74VHC541F
5V
C305
C306
C307
C308
C309
C310
C311
C312
C313
C314
C315
0.1
303
304
305
306
307
308
PVW-5/6
PVW-7/8
EXTMON-5/6
EXTMON-7/8
SIA
SIB
SOA
SOB
SOC
TPA3
TPB3
TPA9
TPB9
TPA4
TPB4
TPA10
TPB10
TPL3 (PVW)
TPL9
TPL4 (MON)
TPL10
TRDT1
RVDT1
SCK1
XSLD3
-RST
MCK1
LRCK1
BCK1
TRDT2
RVDT2
SCK2
XSLD9
MCK2
LRCK2
BCK2
XSLD4
XSLD10
MON1/2-3
MON3/4-3
MON1/2-4
MON3/4-4
MON1/2-1
MON1/2-2
MON3/4-1
MON3/4-2
IN1A
IN32A
IN1B
IN32B
OUTA
OUTB
TPS5 (MON1/2)
TPS6 (MON3/4)
SUM-MON1/2
SUM-MON3/4
TEST
XOVF
WCK
256FS
LRCK4
FS256
LRCK
XRES
SUM-PGM1/2
SUM-PGM3/4
SUM-PST1/2
SUM-PST3/4
G1
G2
CNB1
APR9-CAS-PGM1/2 101
APR9-CAS-PGM3/4 102
APR9-CAS-PST1/2 103
APR9-CAS-PST3/4 104
APR9-CAS-MON1/2 105
APR9-CAS-MON3/4 106

Audio Process Board
APR-9 (3/3)
BKDS-M1820
BOARD NO. 1-658-386-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-APR9

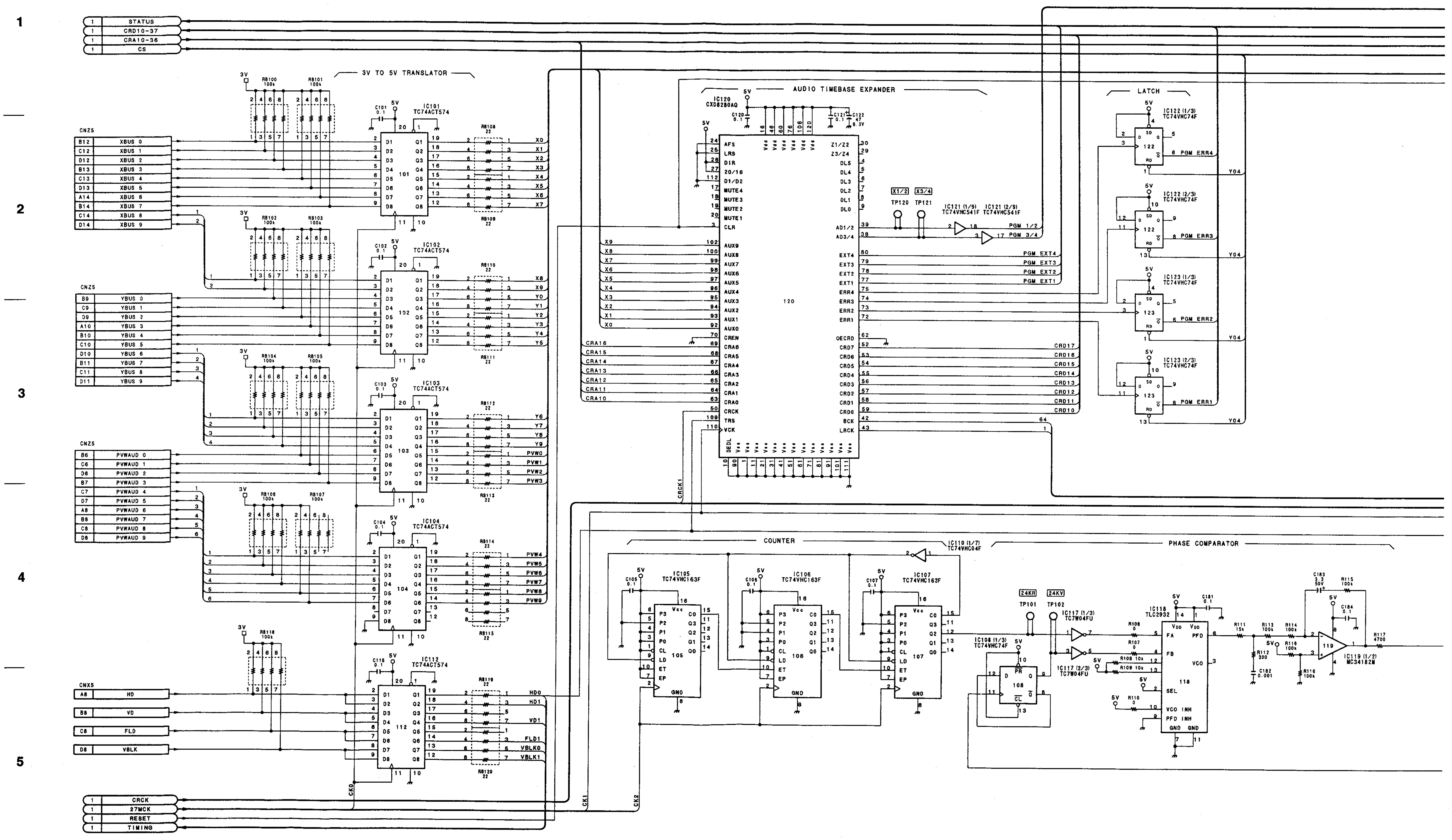
BKDS-M1810 (SY) : S/N 10001 and Higher


CPU INTERFACE
AUDIO ERROR READ
AUDIO STATUS READ
SIF
TIMING
CNX5
CKD (+)
CKD (-)
SADD (+)
SADD (-)
WDATA (+)
WDATA (-)
RDATA (+)
RDATA (-)
SLOT4 (6) (MSB)
SLOT3 (6) G
SLOT2 (6) G
SLOT1 (6) G
THERMO
FUSE (+5V)
+5V
FUSE (+3V)
+3V
RST
GND
CK (27M)
CKX
IC2 (2/5) SN75ALS194N
IC2 (1/5) SN75ALS194N
IC1 (3/4) SN75ALS195J
IC1 (1/4) SN75ALS195J
IC1 (2/4) SN75ALS195J
IC4 CXD80520
(80PIN QFP)
IC5 CAT35C104K
IC6 TC4S66F
IC3 (1/6) TC74VHC14F
IC3 (2/6) TC74VHC14F
IC3 (3/6) TC74VHC14F
IC3 (4/6) TC74VHC14F
IC37 (1/7) TC74VHC04F
IC37 (2/7) TC74VHC04F
IC37 (3/7) TC74VHC04F
IC37 (4/7) TC74VHC04F
IC38 (1/7) TC74VHC04F
IC38 (2/7) TC74VHC04F
IC38 (3/7) TC74VHC04F
IC38 (4/7) TC74VHC04F
IC38 (5/7) TC74VHC04F
IC38 (6/7) TC74VHC04F
IC10 MC74HC589F
IC11 MC74HC589F
IC12 MC74HC589F
IC16 MC74HC589F
IC17 MC74HC589F
IC18 MC74HC589F
IC19 SN74HC595ANS
IC20 SN74HC595ANS
IC21 SN74HC595ANS
PGM EXT1
PGM EXT2
PGM EXT3
PGM EXT4
PGM ERR1
PGM ERR2
PGM ERR3
PGM ERR4
PST EXT1
PST EXT2
PST EXT3
PST EXT4
PST ERR1
PST ERR2
PST ERR3
PST ERR4
PVW EXT1
PVW EXT2
PVW EXT3
PVW EXT4
PVW ERR1
PVW ERR2
PVW ERR3
PVW ERR4
CRD10 CRD11 CRD12 CRD13 CRD14 CRD15 CRD16 CRD17
CRD20 CRD21 CRD22 CRD23 CRD24 CRD25 CRD26 CRD27
CRD30 CRD31 CRD32 CRD33 CRD34 CRD35 CRD36 CRD37
CRA10 CRA11 CRA12 CRA13 CRA14 CRA15 CRA16
CRA20 CRA21 CRA22 CRA23 CRA24 CRA25 CRA26
CRA30 CRA31 CRA32 CRA33 CRA34 CRA35 CRA36
CLOCK BUFFER
SERIAL BUFFER
IC7 TC74VHC540F
IC14 TC74VHC245F
IC15 TC74VHC541F
IC9 TC74VHC541F
IC8 TC74VHC540F
IC32 TC74VHC574F
CK0 CK1 CK2 CK3
CKD10 CKD11 CKD12 CKD20 CKD21
ADR0
DOUT0 DOUT1 DOUT2 DOUT3
CKLV0 CKLV1 CKLV2
CRCK1 CRCK2 CRCK3 CRCK4 CRCK5 CRCK6
CKD20
DIREN GND
D1 1SS226
D2 1SS226
D3 AY1101W
D4 AY1101W
F1 10A
F2 10A
TH1 102AT-2
1
2
3
4
5
A
B
C
D
E
F
G
H

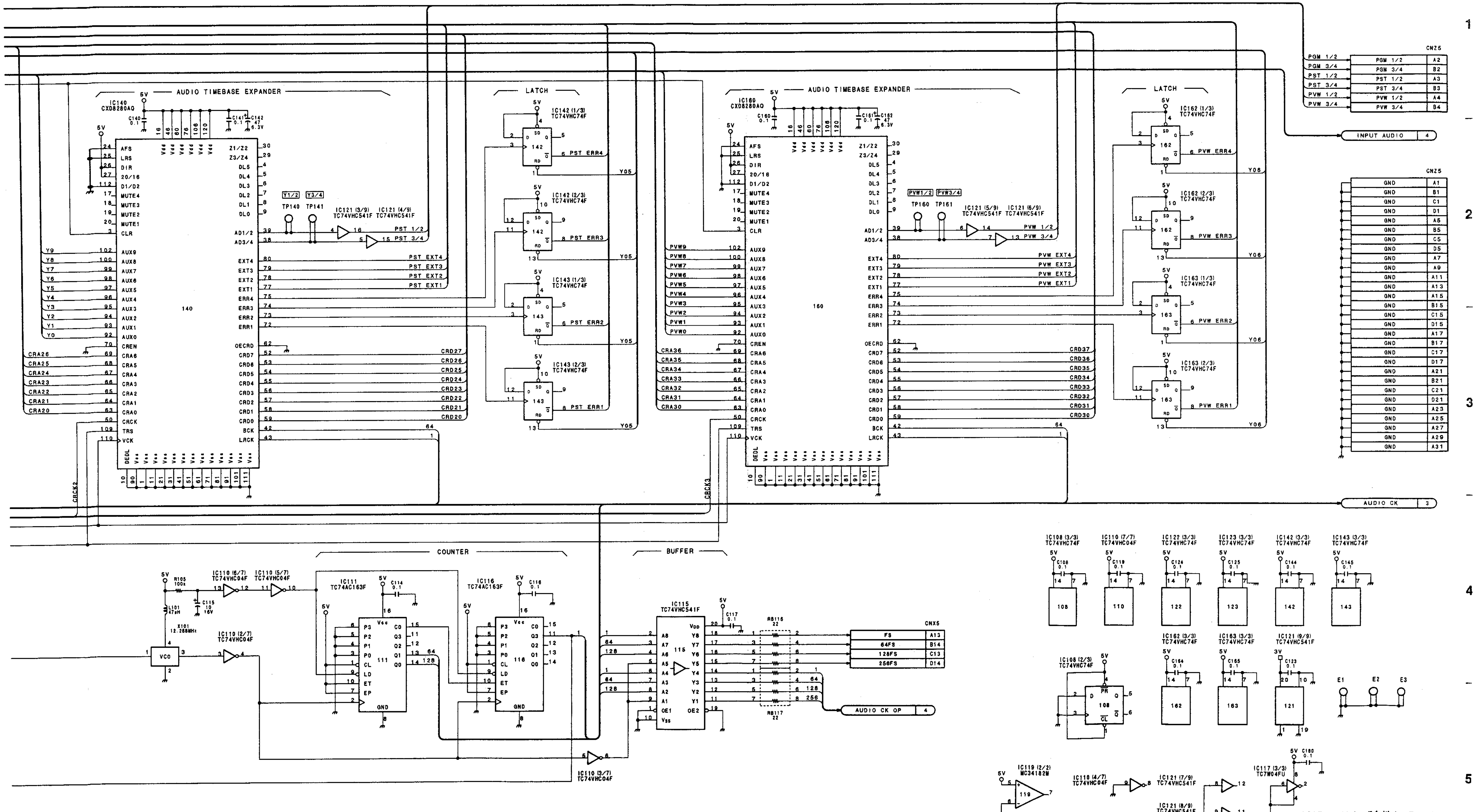

AUDIO STATUS WRITE
AUDIO DELAY ADJ
MUX TIMING GEN
STATUS
CRD10-37
CRA10-36
CRD40-67
CRA40-63
AUDIO DELAY
CS
HSYNC
CKX
RESET
27MCK
CRCK
ADVCK
IC22 SN74HC595ANS
IC23 SN74HC595ANS
IC24 SN74HC595ANS
IC25 SN74HC595ANS
IC26 SN74HC595ANS
IC27 SN74HC595ANS
IC28 SN74HC595ANS
IC29 SN74HC595ANS
IC30 SN74HC595ANS
IC31 SN74HC595ANS
IC33 CXD8058Q
IC34 TC74VHC161F
IC39 (1/7) TC74VHC04F
IC39 (2/7) TC74VHC04F
IC39 (3/7) TC74VHC04F
IC39 (4/7) TC74VHC04F
IC39 (5/7) TC74VHC04F
IC39 (6/7) TC74VHC04F
IC35 (1/4) TC74VHC10F
IC35 (2/4) TC74VHC10F
IC35 (3/4) TC74VHC10F
IC36 (1/9) TC74VHC240F
IC36 (5/9) TC74VHC240F
IC36 (6/9) TC74VHC240F
IC36 (7/9) TC74VHC240F
IC36 (8/9) TC74VHC240F
IC37 (5/7) TC74VHC04F
IC1 (4/4) SN75ALS195J
IC2 (5/5) SN75ALS194N
IC2 (3/5) SN75ALS194N
IC2 (4/5) SN75ALS194N
IC3 (5/6) TC74VHC14F
IC3 (6/6) TC74VHC14F
IC36 (9/9) TC74VHC240F
IC37 (7/7) TC74VHC04F
IC38 (7/7) TC74VHC04F
IC39 (7/7) TC74VHC04F
IC35 (4/4) TC74VHC10F
IC36 (2/9) TC74VHC240F
IC36 (3/9) TC74VHC240F
IC36 (4/9) TC74VHC240F
IC37 (6/7) TC74VHC04F
Y1C
Y1D
Y1E
Y28
Y29
Y2A
Y0A
Y08
CKD11
CKD12
CKD21
DOUT1
DOUT2
DOUT3
ADR0
VBLK0
HD0
CK2
LD0
LD1
LD2
LD3
C-E
HSYNC
TP1
R20 100k
SIN
SCL
G
RCK
CK
SOUT
CRD40
CRD41
CRD42
CRD43
CRD44
CRD45
CRD46
CRD47
CRD50
CRD51
CRD52
CRD53
CRD54
CRD55
CRD56
CRD57
CRD60
CRD61
CRD62
CRD63
CRD64
CRD65
CRD66
CRD67
CRA40
CRA41
CRA42
CRA43
CRA50
CRA51
CRA52
CRA53
CRA60
CRA61
CRA62
CRA63
ADLY10
ADLY11
ADLY12
ADLY13
ADLY14
ADLY20
ADLY21
ADLY22
ADLY23
ADLY24
ADLY30
ADLY31
ADLY32
ADLY33
ADLY34
5V

A/V Demultiplex/Multiplex Board
AVD-3 (1/4)
BKDS-M1810
BOARD NO. 1-658-384-11/12
LOT NO. 506-
FOR DVS-M1000C
B-¥SJX053-AVD3

BKDS-M1810 (SY) : S/N 10001 and Higher


1
2
3
4
5
STATUS
CRD10-37
CRA10-36
CS
3V TO 5V TRANSLATOR
CN25
XBUS 0
XBUS 1
XBUS 2
XBUS 3
XBUS 4
XBUS 5
XBUS 6
XBUS 7
XBUS 8
XBUS 9
YBUS 0
YBUS 1
YBUS 2
YBUS 3
YBUS 4
YBUS 5
YBUS 6
YBUS 7
YBUS 8
YBUS 9
PVWAUD 0
PVWAUD 1
PVWAUD 2
PVWAUD 3
PVWAUD 4
PVWAUD 5
PVWAUD 6
PVWAUD 7
PVWAUD 8
PVWAUD 9
CNX5
HD
VD
FLD
VBLK
IC101 TC74ACT574
IC102 TC74ACT574
IC103 TC74ACT574
IC104 TC74ACT574
IC112 TC74ACT574
RB100 100k
RB101 100k
RB102 100k
RB103 100k
RB104 100k
RB105 100k
RB106 100k
RB107 100k
RB118 100k
RB108 22
RB109 22
RB110 22
RB111 22
RB112 22
RB113 22
RB114 22
RB115 22
RB119 22
RB120 22
X0 X1 X2 X3 X4 X5 X6 X7 X8 X9
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9
PVW0 PVW1 PVW2 PVW3 PVW4 PVW5 PVW6 PVW7 PVW8 PVW9
HD0 HD1 VD1 FLD1 VBLK0 VBLK1
AUDIO TIMEBASE EXPANDER
IC120 CXD8280AQ
AFS LRS DIR 20/16 D1/D2 MUTE4 MUTE3 MUTE2 MUTE1 CLR
AUX9 AUX8 AUX7 AUX6 AUX5 AUX4 AUX3 AUX2 AUX1 AUX0
CREN CRA6 CRA5 CRA4 CRA3 CRA2 CRA1 CRA0 CRCK TRS VCK
Z1/Z2 Z3/Z4 DL5 DL4 DL3 DL2 DL1 DL0 AD1/2 AD3/4
EXT4 EXT3 EXT2 EXT1 ERR4 ERR3 ERR2 ERR1
OECRD CRD7 CRD6 CRD5 CRD4 CRD3 CRD2 CRD1 CRD0 BCK LRCK
CRA16 CRA15 CRA14 CRA13 CRA12 CRA11 CRA10
CRD17 CRD16 CRD15 CRD14 CRD13 CRD12 CRD11 CRD10
X1/2 X3/4 TP120 TP121
IC121 (1/9) TC74VHC541F
IC121 (2/9) TC74VHC541F
PGM 1/2
PGM 3/4
PGM EXT4 PGM EXT3 PGM EXT2 PGM EXT1
LATCH
IC122 (1/3) TC74VHC74F
IC122 (2/3) TC74VHC74F
IC123 (1/3) TC74VHC74F
IC123 (2/3) TC74VHC74F
PGM ERR4 PGM ERR3 PGM ERR2 PGM ERR1
Y04
COUNTER
IC105 TC74VHC163F
IC106 TC74VHC163F
IC107 TC74VHC163F
IC110 (1/7) TC74VHC04F
P3 P2 P1 P0 CL LD ET EP CO Q3 Q2 Q1 Q0 GND
PHASE COMPARATOR
24KH 24KV TP101 TP102
IC117 (1/3) TC7W04FU
IC117 (2/3) TC7W04FU
IC108 (1/3) TC74VHC74F
IC118 TLC2932
FA FB SEL VCO INH PFD INH PFD VCO GND
IC119 (1/2) MC34182M
R111 15k R113 100k R114 100k R115 100k R116 100k R117 4700 R118 100k R112 300
C182 0.001 C183 3.3 50V C184 0.1
CRCK
27MCK
RESET
TIMING
CK0 CK1 CK2 CRCK1

A | B | C | D | E | F | G | H


AUDIO TIMEBASE EXPANDER
IC140 CXD8280AQ
IC160 CXD8280AQ
LATCH
IC142 (1/3) TC74VHC74F
IC142 (2/3) TC74VHC74F
IC143 (1/3) TC74VHC74F
IC143 (2/3) TC74VHC74F
IC162 (1/3) TC74VHC74F
IC162 (2/3) TC74VHC74F
IC163 (1/3) TC74VHC74F
IC163 (2/3) TC74VHC74F
IC121 (3/9) TC74VHC541F
IC121 (4/9) TC74VHC541F
IC121 (5/9) TC74VHC541F
IC121 (6/9) TC74VHC541F
TP140 TP141 TP160 TP161
Y1/2 Y3/4 PVW1/2 PVW3/4
PST 1/2 PST 3/4 PVW 1/2 PVW 3/4
PST ERR1 PST ERR2 PST ERR3 PST ERR4
PVW ERR1 PVW ERR2 PVW ERR3 PVW ERR4
PST EXT1 PST EXT2 PST EXT3 PST EXT4
PVW EXT1 PVW EXT2 PVW EXT3 PVW EXT4
Y05 Y06
CRD20–CRD27 CRD30–CRD37
CRA20–CRA26 CRA30–CRA36
CRCK2 CRCK3
CN25
PGM 1/2 PGM 3/4 PST 1/2 PST 3/4 PVW 1/2 PVW 3/4
A2 B2 A3 B3 A4 B4
INPUT AUDIO 4
GND
AUDIO CK 3
COUNTER
IC111 TC74AC163F
IC116 TC74AC163F
BUFFER
IC115 TC74VHC541F
RB116 22
RB117 22
CNX5
FS 64FS 128FS 256FS
A13 B14 C13 D14
AUDIO CK OP 4
VCO
X101 12.288MHz
L101 47μH
R105 100k
C115 10 16V
IC110 (6/7) TC74VHC04F
IC110 (5/7) TC74VHC04F
IC110 (2/7) TC74VHC04F
IC110 (3/7) TC74VHC04F
IC108 (3/3) TC74VHC74F
IC110 (7/7) TC74VHC04F
IC122 (3/3) TC74VHC74F
IC123 (3/3) TC74VHC74F
IC142 (3/3) TC74VHC74F
IC143 (3/3) TC74VHC74F
IC162 (3/3) TC74VHC74F
IC163 (3/3) TC74VHC74F
IC121 (9/9) TC74VHC541F
IC108 (2/3) TC74VHC74F
IC119 (2/2) MC34182M
IC110 (4/7) TC74VHC04F
IC121 (7/9) TC74VHC541F
IC121 (8/9) TC74VHC541F
IC117 (3/3) TC7W04FU
E1 E2 E3
1 2 3 4 5

A/V Demultiplex/Multiplex Board
AVD-3 (2/4)
BKDS-M1810
BOARD NO. 1-658-384-11/12
LOT NO. 506-
FOR DVS-M1000C
B-¥SJX053-AVD3

BKDS-M1810 (SY) : S/N 10001 and Higher

1

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3

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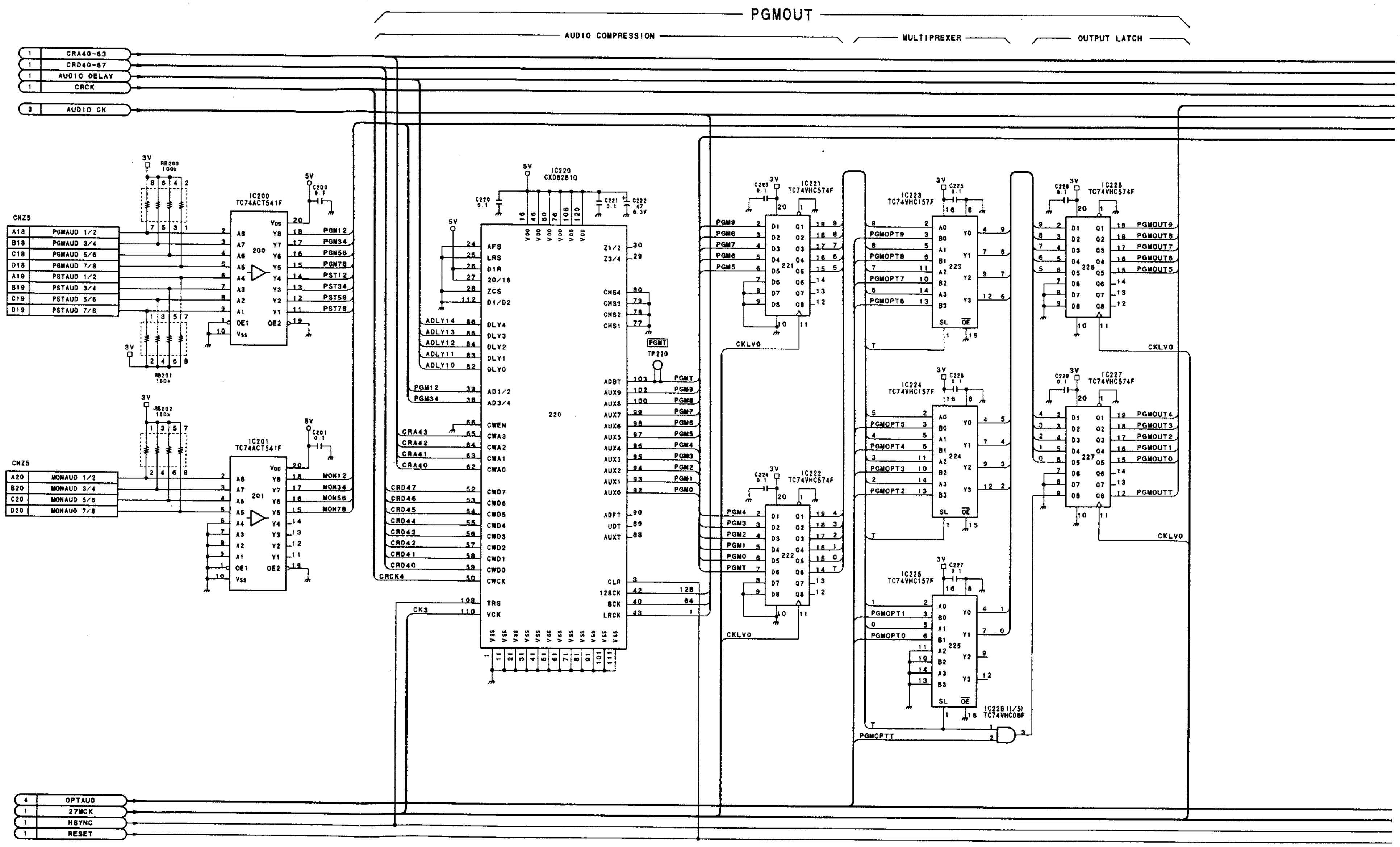
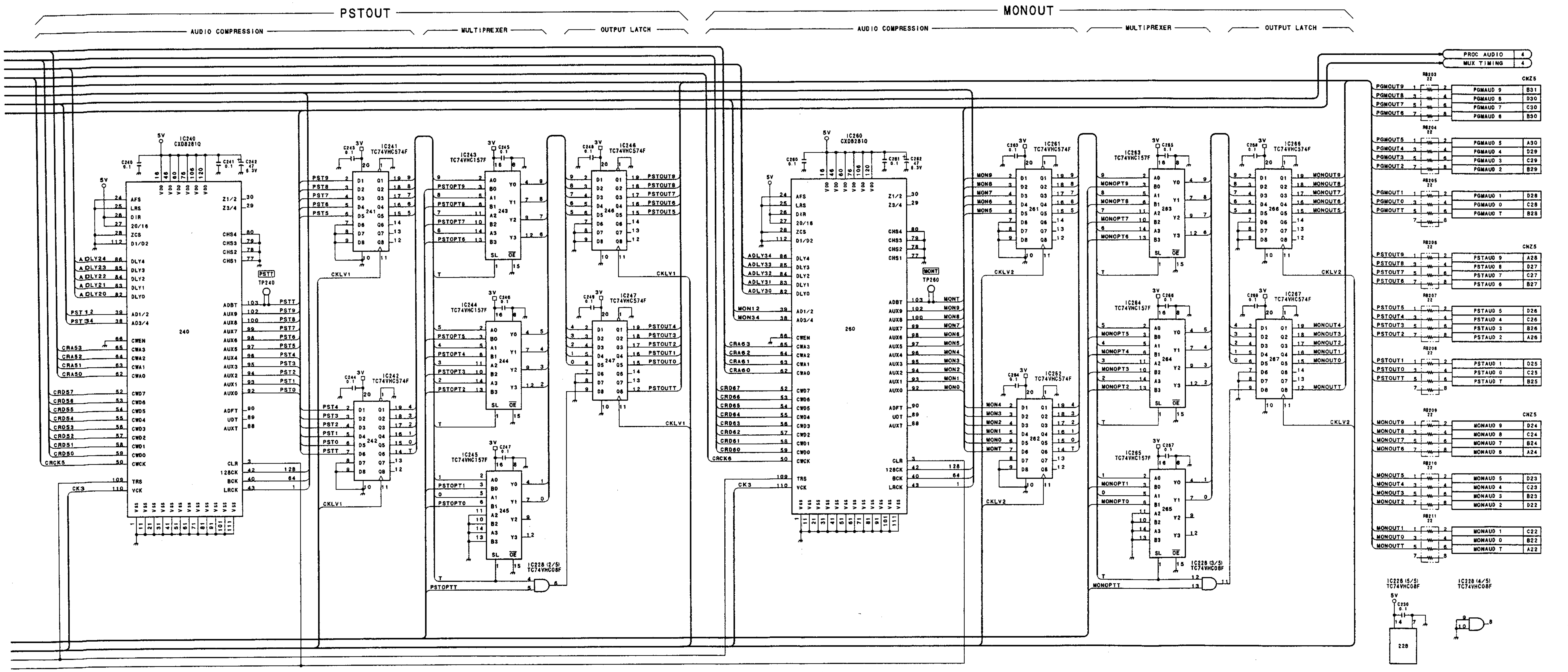
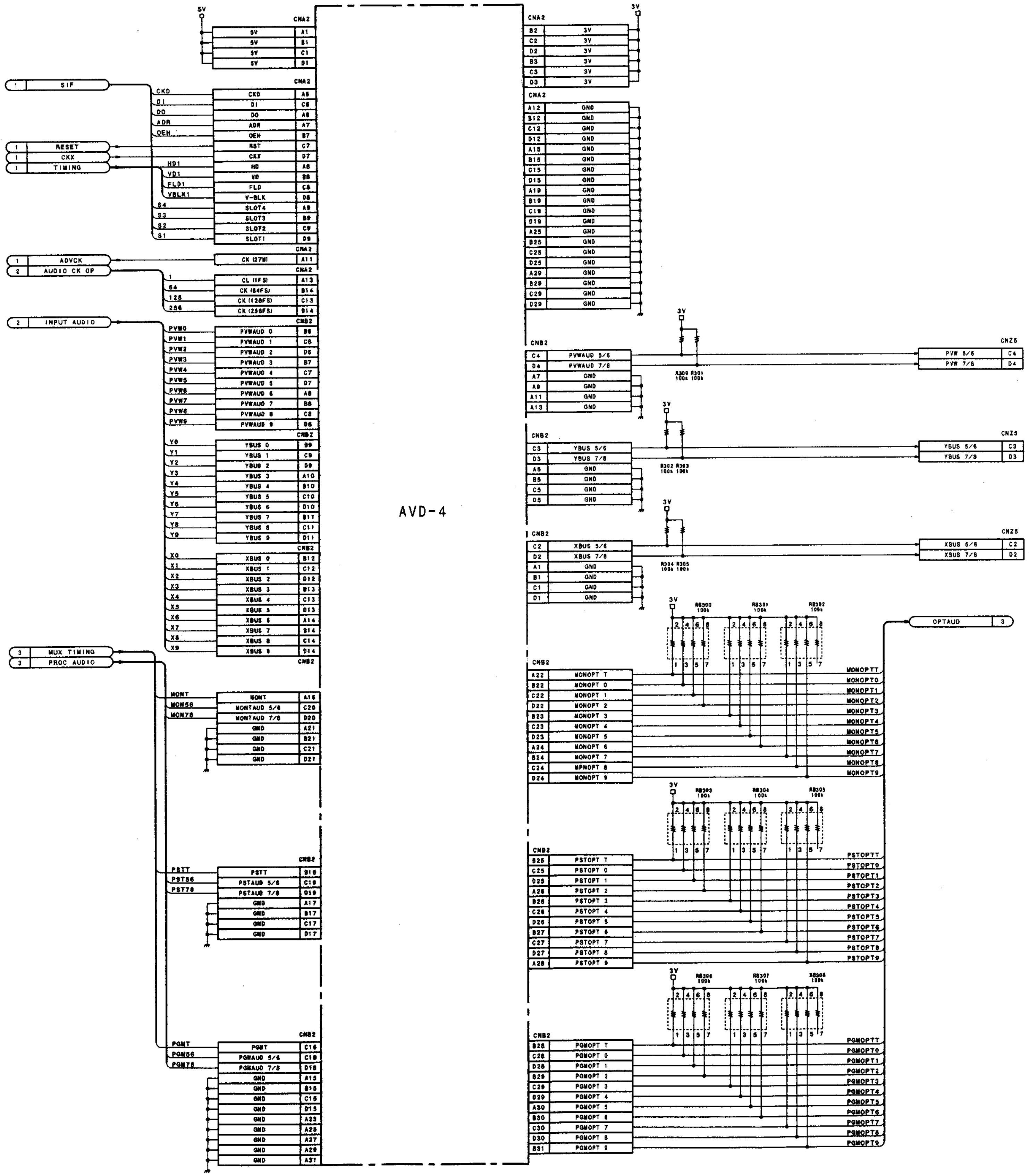

PGMOUT
AUDIO COMPRESSION
MULTIPREXER
OUTPUT LATCH
CRA40-63
CRD40-67
AUDIO DELAY
CRCK
AUDIO CK
CNZ5
A18 PGMAUD 1/2
B18 PGMAUD 3/4
C18 PGMAUD 5/6
D18 PGMAUD 7/8
A19 PSTAUD 1/2
B19 PSTAUD 3/4
C19 PSTAUD 5/6
D19 PSTAUD 7/8
A20 MONAUD 1/2
B20 MONAUD 3/4
C20 MONAUD 5/6
D20 MONAUD 7/8
RB200 100k
RB201 100k
RB202 100k
IC200 TC74ACT541F
IC201 TC74ACT541F
C200 0.1
C201 0.1
PGM12
PGM34
PGM56
PGM78
PST12
PST34
PST56
PST78
MON12
MON34
MON56
MON78
IC220 CXD8281Q
C220 0.1
C221 0.1
C222 47 6.3V
PGMT
TP220
IC221 TC74VHC574F
IC222 TC74VHC574F
IC223 TC74VHC157F
IC224 TC74VHC157F
IC225 TC74VHC157F
IC226 TC74VHC574F
IC227 TC74VHC574F
IC228 (1/5) TC74VHC08F
CKLVO
PGMOPTT
PGMOUT9
PGMOUT8
PGMOUT7
PGMOUT6
PGMOUT5
PGMOUT4
PGMOUT3
PGMOUT2
PGMOUT1
PGMOUT0
PGMOUTT
CK3
CRCK4
OPTAUD
27MCK
HSYNC
RESET

A | B | C | D | E | F | G | H


PSTOUT
AUDIO COMPRESSION
MULTIPREXER
OUTPUT LATCH
MONOUT
AUDIO COMPRESSION
MULTIPREXER
OUTPUT LATCH
IC240 CXD8281Q
IC241 TC74VHC574F
IC242 TC74VHC574F
IC243 TC74VHC157F
IC244 TC74VHC157F
IC245 TC74VHC157F
IC246 TC74VHC574F
IC247 TC74VHC574F
IC228 (2/5) TC74VHC08F
IC260 CXD8281Q
IC261 TC74VHC574F
IC262 TC74VHC574F
IC263 TC74VHC157F
IC264 TC74VHC157F
IC265 TC74VHC157F
IC266 TC74VHC574F
IC267 TC74VHC574F
IC228 (3/5) TC74VHC08F
IC228 (5/5) TC74VHC08F
IC228 (4/5) TC74VHC08F
TP240
TP260
PROC AUDIO
MUX TIMING
CN25
1
2
3
4
5

A/V Demultiplex/Multiplex Board
AVD-3 (3/4)
BKDS-M1810
BOARD NO. 1-658-384-11/12
LOT NO. 506-
FOR DVS-M1000C
B-¥SJX053-AVD3

BKDS-M1810 (SY) : S/N 10001 and Higher

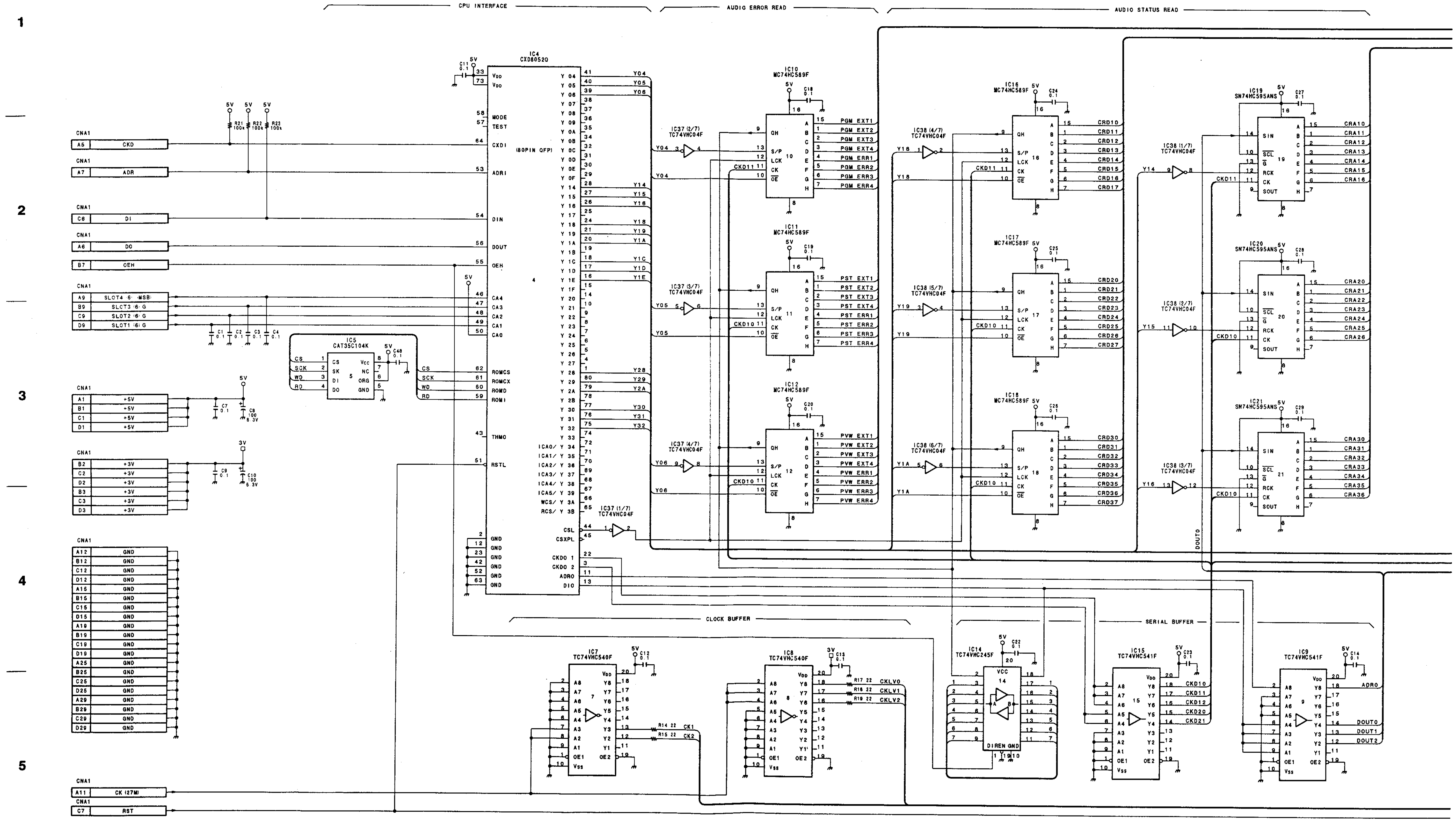

AVD-4
5V
3V
CNA2
CNB2
CNZ5
SIF
CKD
DI
DO
ADR
OEN
RESET
CKX
TIMING
HD1
VD1
FLD1
VBLK1
S4
S3
S2
S1
ADVCK
AUDIO CK OP
INPUT AUDIO
PVW0
PVW9
Y0
Y9
X0
X9
MUX TIMING
PROC AUDIO
MONT
MON56
MON78
PSTT
PST56
PST78
PGMT
PGM56
PGM78
GND
PVW 5/6
PVW 7/8
YBUS 5/6
YBUS 7/8
XBUS 5/6
XBUS 7/8
OPTAUD
MONOPTT
MONOPT0
MONOPT9
PSTOPTT
PSTOPT0
PSTOPT9
PGMOPTT
PGMOPT0
PGMOPT9
RB300
RB301
RB302
RB303
RB304
RB305
RB306
RB307
RB308
100k

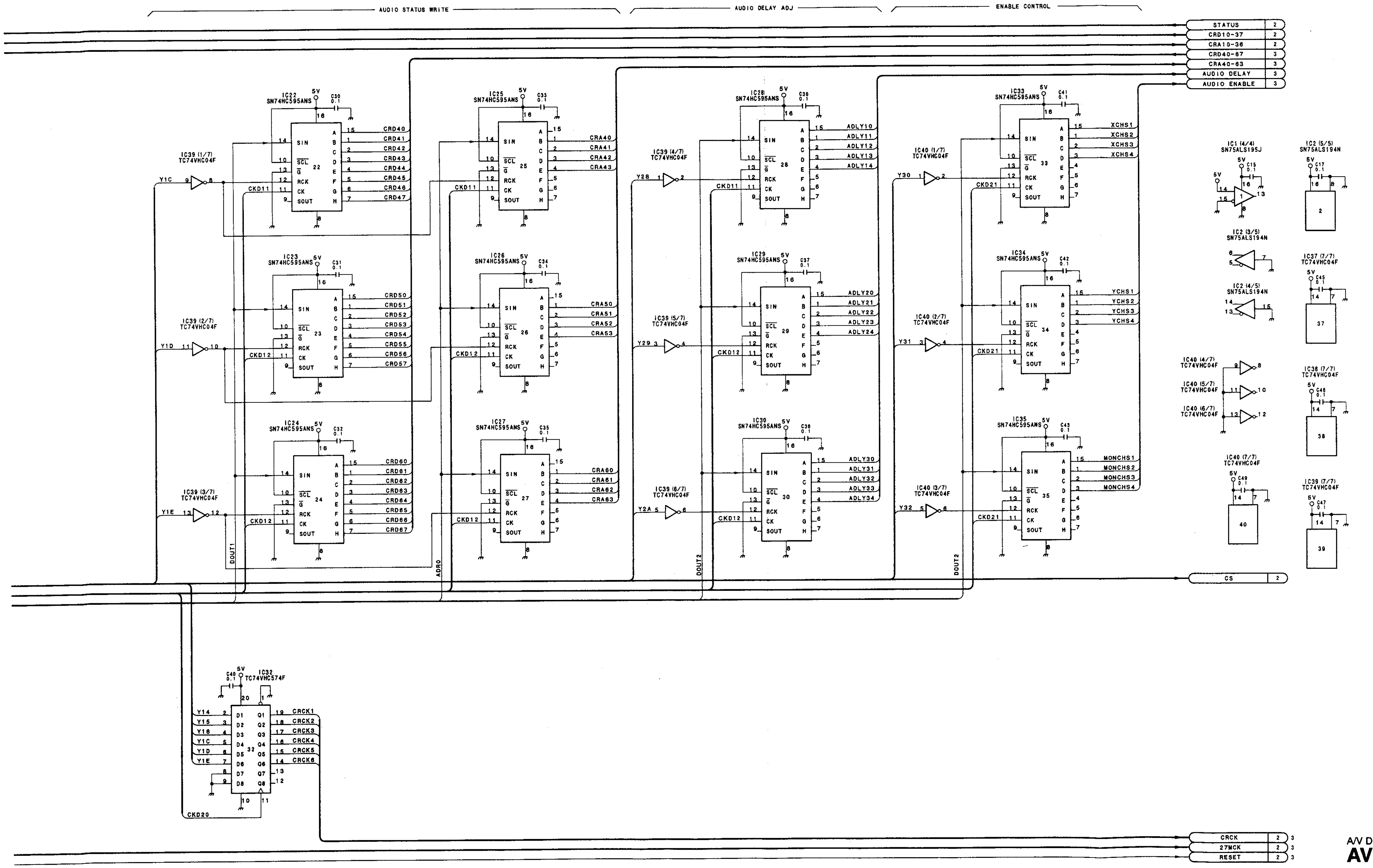
A/V Demultiplex/Multiplex Board

AVD-3 (4/4)

BKDS-M1810
BOARD NO. 1-658-384-11/12
LOT NO. 506-
FOR DVS-M1000C
B-¥SJX053-AVD3

BKDS-M1820 (SY) : S/N 10001 and Higher

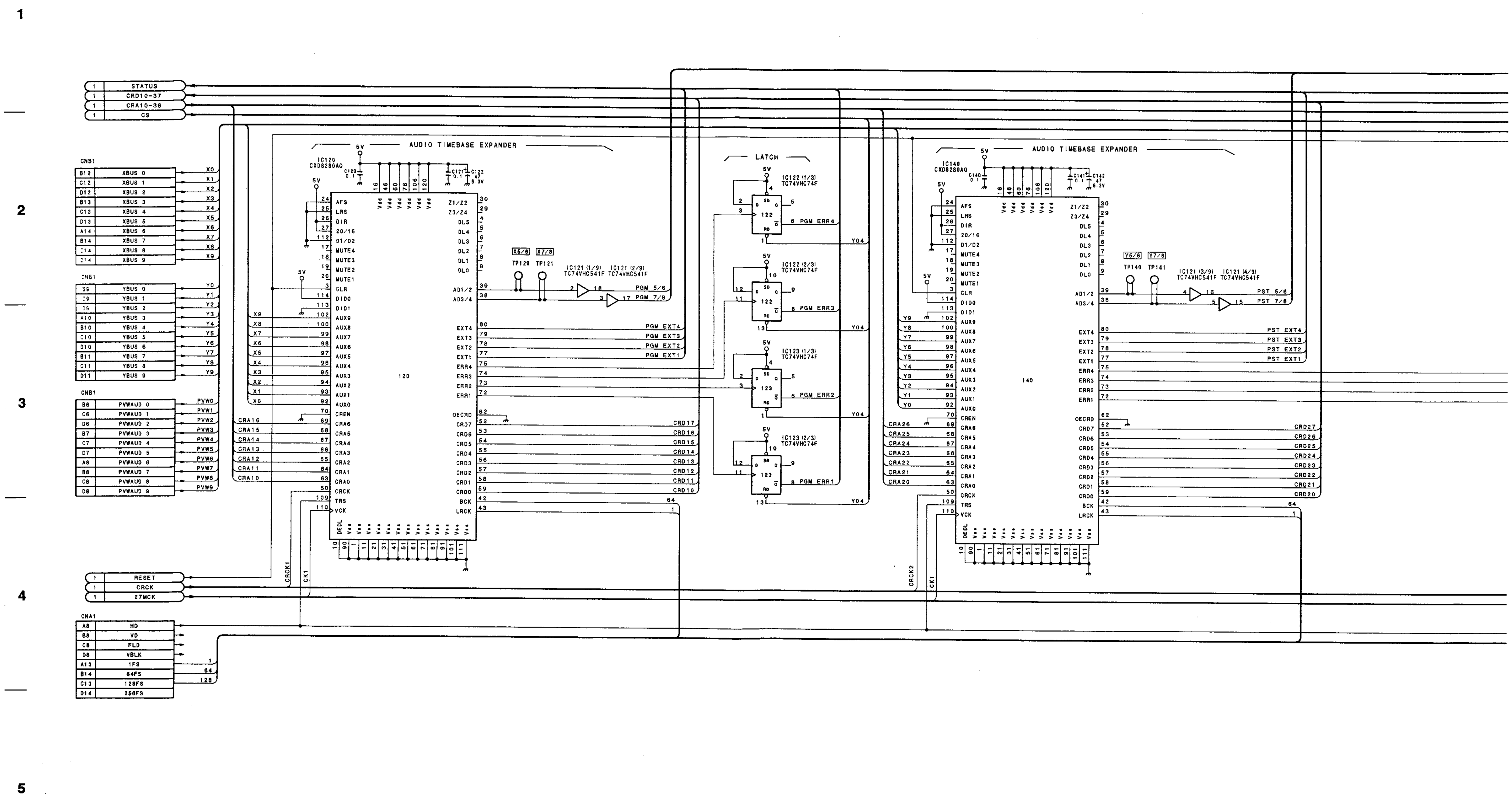

1
2
3
4
5
CPU INTERFACE
AUDIO ERROR READ
AUDIO STATUS READ
CLOCK BUFFER
SERIAL BUFFER
IC4 CXD8052Q
(80PIN QFP)
CNA1
A5 CKO
A7 ADR
C6 DI
A6 DO
B7 OEH
A9 SLOT4 (6) (MSB)
B9 SLOT3 (6) G
C9 SLOT2 (6) G
D9 SLOT1 (6) G
A1 +5V
B1 +5V
C1 +5V
D1 +5V
B2 +3V
C2 +3V
D2 +3V
B3 +3V
C3 +3V
D3 +3V
A12 GND
B12 GND
C12 GND
D12 GND
A15 GND
B15 GND
C15 GND
D15 GND
A19 GND
B19 GND
C19 GND
D19 GND
A25 GND
B25 GND
C25 GND
D25 GND
A29 GND
B29 GND
C29 GND
D29 GND
A11 CK (27M)
C7 RST
R21 100k
R22 100k
R23 100k
IC5 CAT35C104K
CS
SCK
WD
RD
ROMCS
ROMCK
ROMD
ROMI
MODE
TEST
CXDI
ADRI
DIN
DOUT
OEH
CA4
CA3
CA2
CA1
CA0
THMO
RSTL
CSL
CSXPL
CKDO 1
CKDO 2
ADRO
DIO
IC10 MC74HC589F
IC11 MC74HC589F
IC12 MC74HC589F
IC16 MC74HC589F
IC17 MC74HC589F
IC18 MC74HC589F
IC19 SN74HC595ANS
IC20 SN74HC595ANS
IC21 SN74HC595ANS
IC37 (1/7) TC74VHC04F
IC37 (2/7) TC74VHC04F
IC37 (3/7) TC74VHC04F
IC37 (4/7) TC74VHC04F
IC38 (1/7) TC74VHC04F
IC38 (2/7) TC74VHC04F
IC38 (3/7) TC74VHC04F
IC38 (4/7) TC74VHC04F
IC38 (5/7) TC74VHC04F
IC38 (6/7) TC74VHC04F
PGM EXT1
PGM EXT2
PGM EXT3
PGM EXT4
PGM ERR1
PGM ERR2
PGM ERR3
PGM ERR4
PST EXT1
PST EXT2
PST EXT3
PST EXT4
PST ERR1
PST ERR2
PST ERR3
PST ERR4
PVW EXT1
PVW EXT2
PVW EXT3
PVW EXT4
PVW ERR1
PVW ERR2
PVW ERR3
PVW ERR4
CRD10 CRD11 CRD12 CRD13 CRD14 CRD15 CRD16 CRD17
CRD20 CRD21 CRD22 CRD23 CRD24 CRD25 CRD26 CRD27
CRD30 CRD31 CRD32 CRD33 CRD34 CRD35 CRD36 CRD37
CRA10 CRA11 CRA12 CRA13 CRA14 CRA15 CRA16
CRA20 CRA21 CRA22 CRA23 CRA24 CRA25 CRA26
CRA30 CRA31 CRA32 CRA33 CRA34 CRA35 CRA36
CKD11
CKD10
DOUT0
IC7 TC74VHC540F
IC8 TC74VHC540F
IC14 TC74VHC245F
IC15 TC74VHC541F
IC9 TC74VHC541F
R14 22 CK1
R15 22 CK2
R17 22 CKLV0
R18 22 CKLV1
R19 22 CKLV2
CKD10 CKD11 CKD12 CKD20 CKD21
ADRO
DOUT0 DOUT1 DOUT2
DIREN GND
A
B
C
D
E
F
G
H


AUDIO STATUS WRITE
AUDIO DELAY ADJ
ENABLE CONTROL
STATUS 2
CRD10-37 2
CRA10-36 2
CRD40-67 3
CRA40-63 3
AUDIO DELAY 3
AUDIO ENABLE 3
IC22 SN74HC595ANS
IC23 SN74HC595ANS
IC24 SN74HC595ANS
IC25 SN74HC595ANS
IC26 SN74HC595ANS
IC27 SN74HC595ANS
IC28 SN74HC595ANS
IC29 SN74HC595ANS
IC30 SN74HC595ANS
IC33 SN74HC595ANS
IC34 SN74HC595ANS
IC35 SN74HC595ANS
IC39 (1/7) TC74VHC04F
IC39 (2/7) TC74VHC04F
IC39 (3/7) TC74VHC04F
IC39 (4/7) TC74VHC04F
IC39 (5/7) TC74VHC04F
IC39 (6/7) TC74VHC04F
IC40 (1/7) TC74VHC04F
IC40 (2/7) TC74VHC04F
IC40 (3/7) TC74VHC04F
IC40 (4/7) TC74VHC04F
IC40 (5/7) TC74VHC04F
IC40 (6/7) TC74VHC04F
IC40 (7/7) TC74VHC04F
IC1 (4/4) SN75ALS195J
IC2 (3/5) SN75ALS194N
IC2 (4/5) SN75ALS194N
IC2 (5/5) SN75ALS194N
IC37 (7/7) TC74VHC04F
IC38 (7/7) TC74VHC04F
IC39 (7/7) TC74VHC04F
IC32 TC74VHC574F
CRD40 CRD41 CRD42 CRD43 CRD44 CRD45 CRD46 CRD47
CRD50 CRD51 CRD52 CRD53 CRD54 CRD55 CRD56 CRD57
CRD60 CRD61 CRD62 CRD63 CRD64 CRD65 CRD66 CRD67
CRA40 CRA41 CRA42 CRA43
CRA50 CRA51 CRA52 CRA53
CRA60 CRA61 CRA62 CRA63
ADLY10 ADLY11 ADLY12 ADLY13 ADLY14
ADLY20 ADLY21 ADLY22 ADLY23 ADLY24
ADLY30 ADLY31 ADLY32 ADLY33 ADLY34
XCHS1 XCHS2 XCHS3 XCHS4
YCHS1 YCHS2 YCHS3 YCHS4
MONCHS1 MONCHS2 MONCHS3 MONCHS4
Y1C Y1D Y1E Y28 Y29 Y2A Y30 Y31 Y32
CKD11 CKD12 CKD21 CKD20
DOUT1 ADR0 DOUT2
Y14 Y15 Y16 Y1C Y1D Y1E
CRCK1 CRCK2 CRCK3 CRCK4 CRCK5 CRCK6
CS 2
CRCK 2 3
27MCK 2 3
RESET 2 3
1
2
3
4
5
I
J
K
L
M
N
O
P

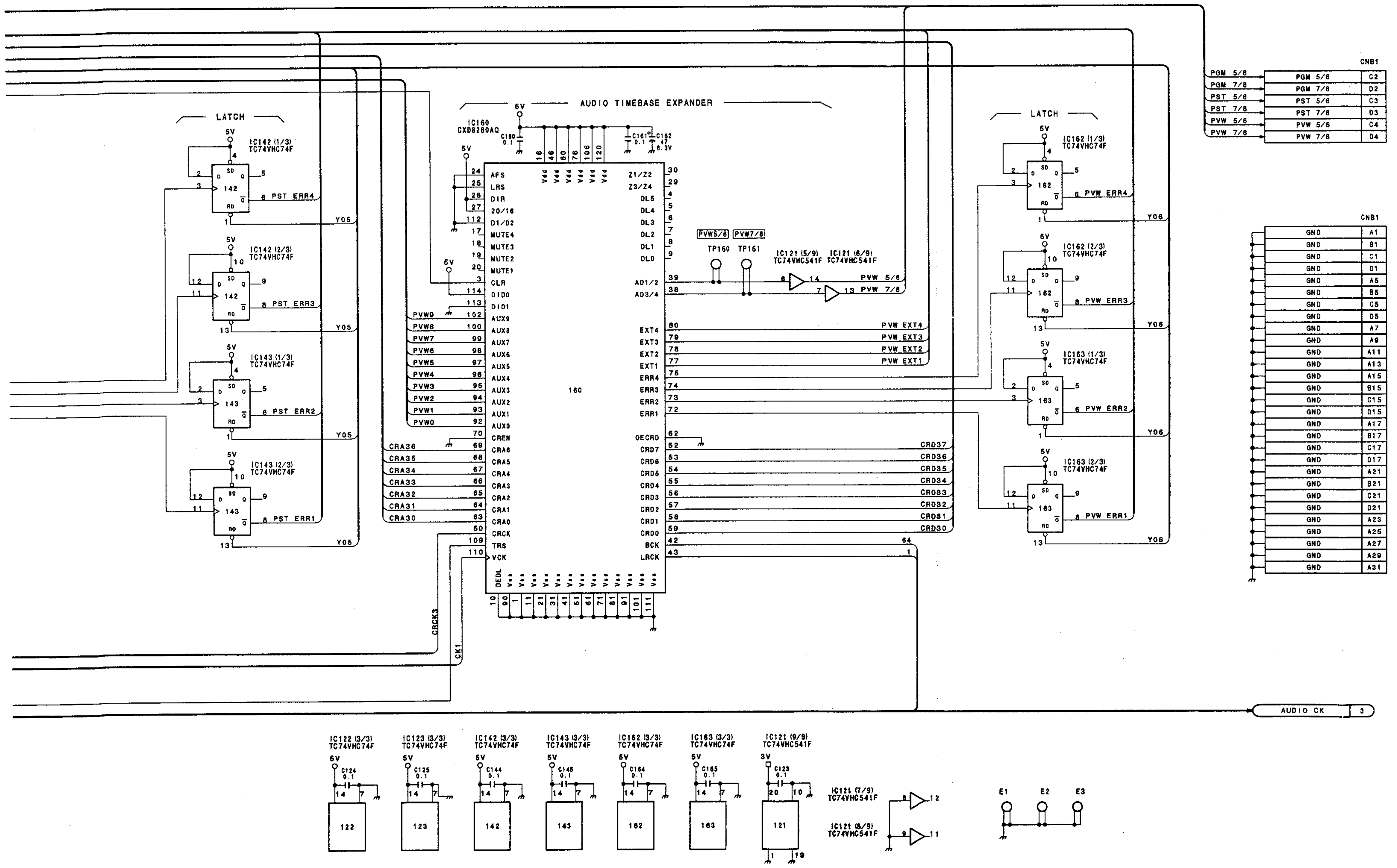
A/V Demultiplex/Multiplex Board
AVD-4 (1/3)
BKDS-M1820
BOARD NO. 1-658-394-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-AVD4

AVD-4 (2/3) A/V Demultiplex/Multiplex Board

BKDS-M1820 (SY) : S/N 10001 and Higher


1
2
3
4
5
STATUS
CRD10-37
CRA10-36
CS
CNB1
XBUS 0
XBUS 1
XBUS 2
XBUS 3
XBUS 4
XBUS 5
XBUS 6
XBUS 7
XBUS 8
XBUS 9
YBUS 0
YBUS 1
YBUS 2
YBUS 3
YBUS 4
YBUS 5
YBUS 6
YBUS 7
YBUS 8
YBUS 9
PVWAUD 0
PVWAUD 1
PVWAUD 2
PVWAUD 3
PVWAUD 4
PVWAUD 5
PVWAUD 6
PVWAUD 7
PVWAUD 8
PVWAUD 9
AUDIO TIMEBASE EXPANDER
IC120 CXD8280AQ
IC140 CXD8280AQ
LATCH
IC122 (1/3) TC74VHC74F
IC122 (2/3) TC74VHC74F
IC123 (1/3) TC74VHC74F
IC123 (2/3) TC74VHC74F
IC121 (1/9) TC74VHC541F
IC121 (2/9) TC74VHC541F
IC121 (3/9) TC74VHC541F
IC121 (4/9) TC74VHC541F
X5/6
X7/8
TP120
TP121
Y5/6
Y7/8
TP140
TP141
PGM 5/6
PGM 7/8
PST 5/6
PST 7/8
PGM EXT4
PGM EXT3
PGM EXT2
PGM EXT1
PST EXT4
PST EXT3
PST EXT2
PST EXT1
PGM ERR4
PGM ERR3
PGM ERR2
PGM ERR1
Y04
CRCK1
CK1
CRCK2
RESET
CRCK
27MCK
CNA1
HD
VD
FLD
VBLK
1FS
64FS
128FS
256FS
A
B
C
D
E
F
G
H

3-60

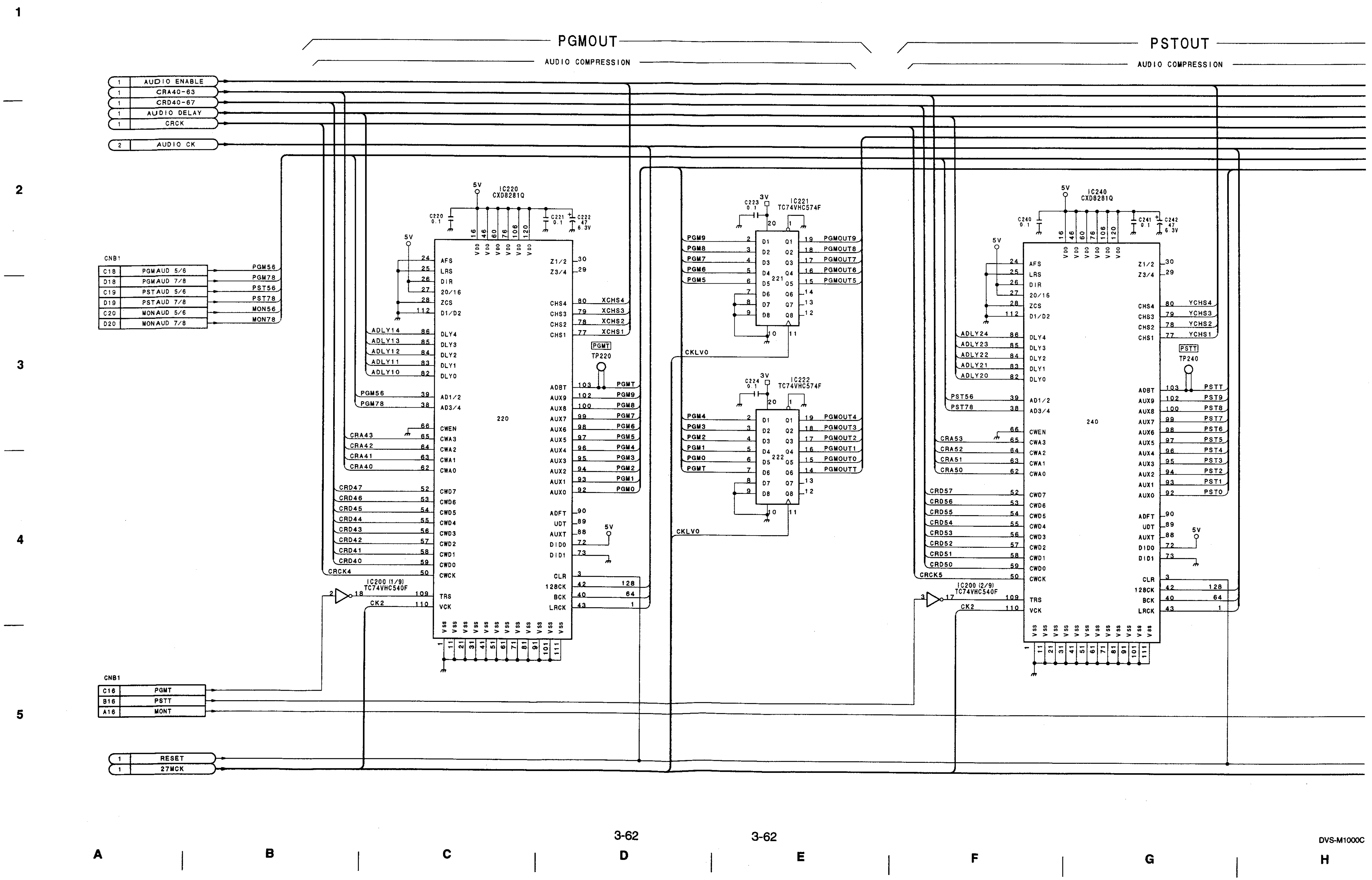

LATCH
5V
IC142 (1/3)
TC74VHC74F
SD
D
Q
RD
142
PST ERR4
Y05
IC142 (2/3)
TC74VHC74F
PST ERR3
IC143 (1/3)
TC74VHC74F
143
PST ERR2
IC143 (2/3)
TC74VHC74F
PST ERR1
AUDIO TIMEBASE EXPANDER
IC160
CXD8280AQ
C160 0.1
C161 0.1
C162 47 6.3V
AFS
LRS
DIR
20/16
D1/D2
MUTE4
MUTE3
MUTE2
MUTE1
CLR
DIDO
DID1
AUX9
AUX8
AUX7
AUX6
AUX5
AUX4
AUX3
AUX2
AUX1
AUX0
CREN
CRA6
CRA5
CRA4
CRA3
CRA2
CRA1
CRA0
CRCK
TRS
VCK
DEDL
Vdd
Vss
160
Z1/Z2
Z3/Z4
DL5
DL4
DL3
DL2
DL1
DL0
AD1/2
AD3/4
EXT4
EXT3
EXT2
EXT1
ERR4
ERR3
ERR2
ERR1
OECRD
CRD7
CRD6
CRD5
CRD4
CRD3
CRD2
CRD1
CRD0
BCK
LRCK
PVW9
PVW8
PVW7
PVW6
PVW5
PVW4
PVW3
PVW2
PVW1
PVW0
CRA36
CRA35
CRA34
CRA33
CRA32
CRA31
CRA30
CRCK3
CK1
PVW5/6
PVW7/8
TP160
TP161
IC121 (5/9)
TC74VHC541F
IC121 (6/9)
TC74VHC541F
PVW 5/6
PVW 7/8
PVW EXT4
PVW EXT3
PVW EXT2
PVW EXT1
CRD37
CRD36
CRD35
CRD34
CRD33
CRD32
CRD31
CRD30
LATCH
IC162 (1/3)
TC74VHC74F
162
PVW ERR4
Y06
IC162 (2/3)
TC74VHC74F
PVW ERR3
IC163 (1/3)
TC74VHC74F
163
PVW ERR2
IC163 (2/3)
TC74VHC74F
PVW ERR1
CNB1
PGM 5/6
PGM 7/8
PST 5/6
PST 7/8
PVW 5/6
PVW 7/8
C2
D2
C3
D3
C4
D4
CNB1
GND
A1
B1
C1
D1
A5
B5
C5
D5
A7
A9
A11
A13
A15
B15
C15
D15
A17
B17
C17
D17
A21
B21
C21
D21
A23
A25
A27
A29
A31
AUDIO CK
3
IC122 (3/3)
TC74VHC74F
C124 0.1
122
IC123 (3/3)
TC74VHC74F
C125 0.1
123
IC142 (3/3)
TC74VHC74F
C144 0.1
142
IC143 (3/3)
TC74VHC74F
C145 0.1
143
IC162 (3/3)
TC74VHC74F
C164 0.1
162
IC163 (3/3)
TC74VHC74F
C165 0.1
163
IC121 (9/9)
TC74VHC541F
3V
C123 0.1
121
IC121 (7/9)
TC74VHC541F
IC121 (8/9)
TC74VHC541F
E1
E2
E3

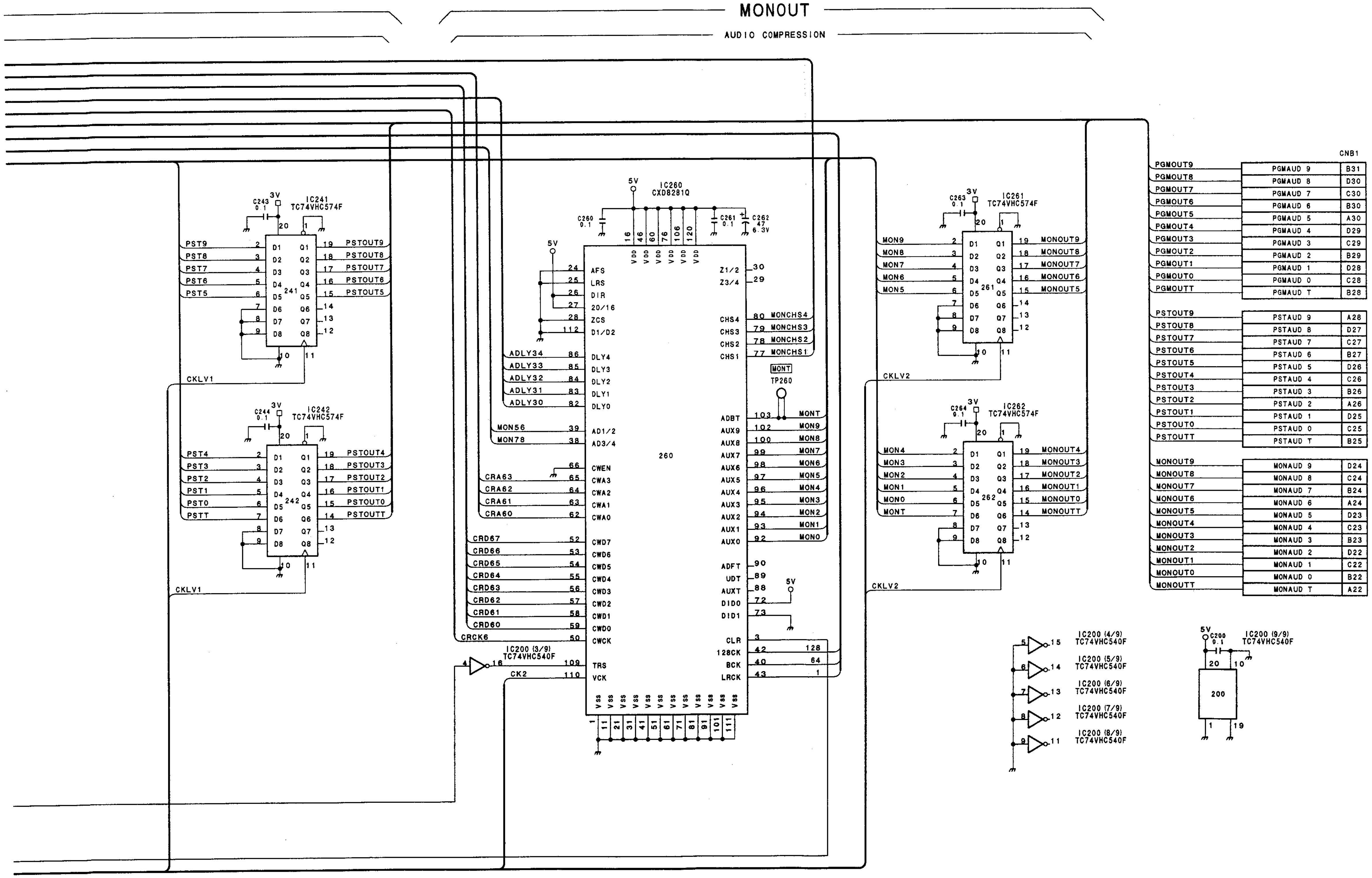
A/V Demultiplex/Multiplex Board

AVD-4 (2/3)

BKDS-M1820
BOARD NO. 1-658-394-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-AVD4

BKDS-M1820 (SY) : S/N 10001 and Higher

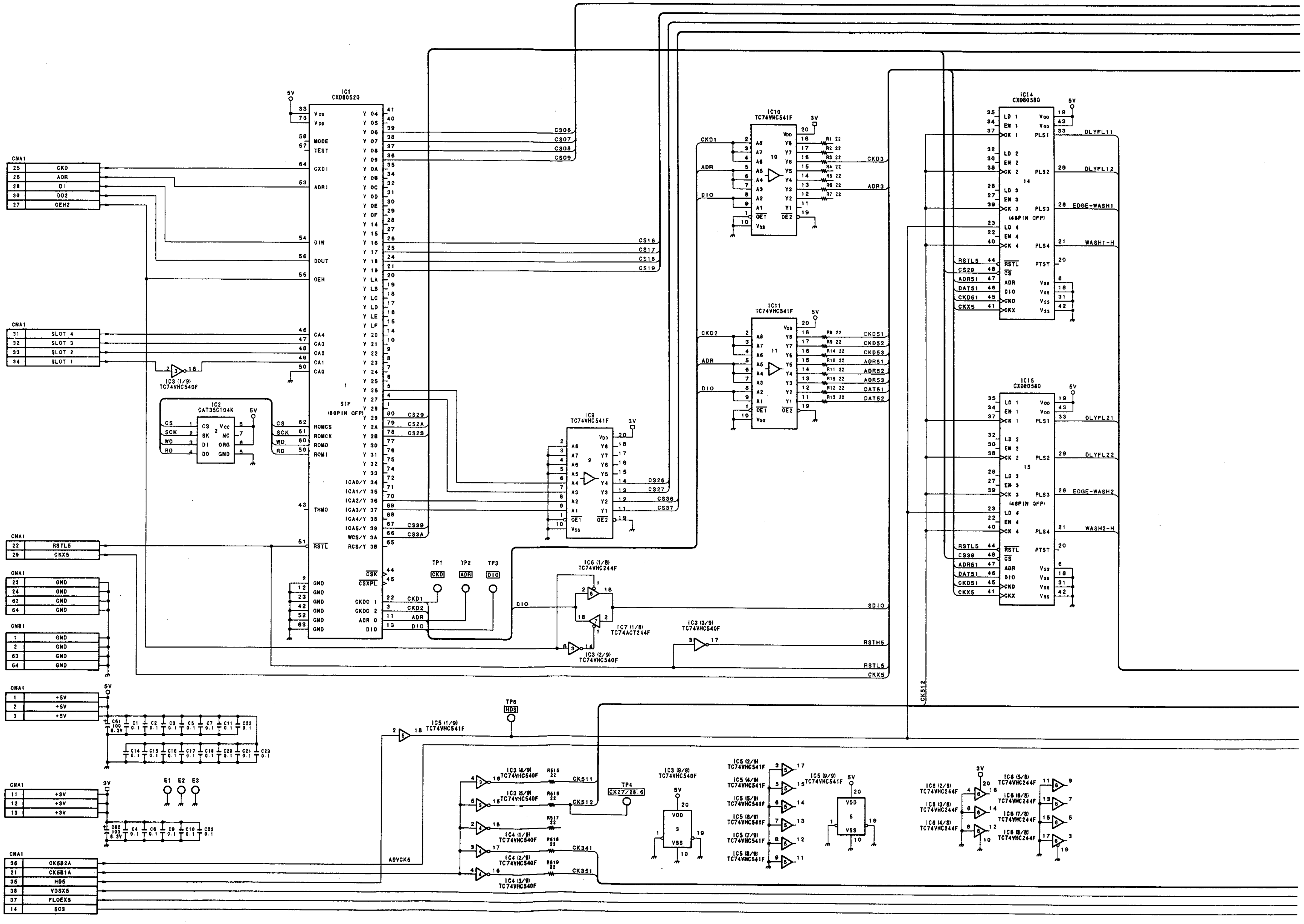

PGMOUT
AUDIO COMPRESSION
PSTOUT
AUDIO COMPRESSION
AUDIO ENABLE
CRA40-63
CRD40-67
AUDIO DELAY
CRCK
AUDIO CK
CNB1
C18 PGMAUD 5/6
D18 PGMAUD 7/8
C19 PSTAUD 5/6
D19 PSTAUD 7/8
C20 MONAUD 5/6
D20 MONAUD 7/8
PGM56
PGM78
PST56
PST78
MON56
MON78
IC220 CXD8281Q
IC221 TC74VHC574F
IC222 TC74VHC574F
IC240 CXD8281Q
IC200 (1/9) TC74VHC540F
IC200 (2/9) TC74VHC540F
C220 0.1
C221 0.1
C222 47 6.3V
C223 0.1
C224 0.1
C240 0.1
C241 0.1
C242 47 6.3V
5V
3V
AFS
LRS
DIR
20/16
ZCS
D1/D2
DLY4
DLY3
DLY2
DLY1
DLY0
AD1/2
AD3/4
CWEN
CWA3
CWA2
CWA1
CWA0
CWD7
CWD6
CWD5
CWD4
CWD3
CWD2
CWD1
CWD0
CWCK
TRS
VCK
Z1/2
Z3/4
CHS4
CHS3
CHS2
CHS1
ADBT
AUX9
AUX8
AUX7
AUX6
AUX5
AUX4
AUX3
AUX2
AUX1
AUX0
ADFT
UDT
AUXT
DIDO
DID1
CLR
128CK
BCK
LRCK
VDD
VSS
220
221
222
240
ADLY14
ADLY13
ADLY12
ADLY11
ADLY10
ADLY24
ADLY23
ADLY22
ADLY21
ADLY20
CRA43
CRA42
CRA41
CRA40
CRA53
CRA52
CRA51
CRA50
CRD47
CRD46
CRD45
CRD44
CRD43
CRD42
CRD41
CRD40
CRD57
CRD56
CRD55
CRD54
CRD53
CRD52
CRD51
CRD50
CRCK4
CRCK5
CK2
XCHS4
XCHS3
XCHS2
XCHS1
YCHS4
YCHS3
YCHS2
YCHS1
PGMT
TP220
PSTT
TP240
PGM9
PGM8
PGM7
PGM6
PGM5
PGM4
PGM3
PGM2
PGM1
PGM0
PST9
PST8
PST7
PST6
PST5
PST4
PST3
PST2
PST1
PST0
PGMOUT9
PGMOUT8
PGMOUT7
PGMOUT6
PGMOUT5
PGMOUT4
PGMOUT3
PGMOUT2
PGMOUT1
PGMOUT0
PGMOUTT
D1 D2 D3 D4 D5 D6 D7 D8
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8
CKLV0
128
64
1
C16 PGMT
B16 PSTT
A16 MONT
RESET
27MCK
1
2
3
4
5
A
B
C
D
E
F
G
H


MONOUT
AUDIO COMPRESSION
IC241 TC74VHC574F
IC242 TC74VHC574F
IC260 CXD8281Q
IC261 TC74VHC574F
IC262 TC74VHC574F
C243 0.1
C244 0.1
C260 0.1
C261 0.1
C262 47 6.3V
C263 0.1
C264 0.1
3V
5V
PST9
PST8
PST7
PST6
PST5
PST4
PST3
PST2
PST1
PST0
PSTT
PSTOUT9
PSTOUT8
PSTOUT7
PSTOUT6
PSTOUT5
PSTOUT4
PSTOUT3
PSTOUT2
PSTOUT1
PSTOUT0
PSTOUTT
CKLV1
CKLV2
ADLY34
ADLY33
ADLY32
ADLY31
ADLY30
MON56
MON78
CRA63
CRA62
CRA61
CRA60
CRD67
CRD66
CRD65
CRD64
CRD63
CRD62
CRD61
CRD60
CRCK6
CK2
IC200 (3/9) TC74VHC540F
AFS
LRS
DIR
20/16
ZCS
D1/D2
DLY4
DLY3
DLY2
DLY1
DLY0
AD1/2
AD3/4
CWEN
CWA3
CWA2
CWA1
CWA0
CWD7
CWD6
CWD5
CWD4
CWD3
CWD2
CWD1
CWD0
CWCK
TRS
VCK
Z1/2
Z3/4
CHS4
CHS3
CHS2
CHS1
ADBT
AUX9
AUX8
AUX7
AUX6
AUX5
AUX4
AUX3
AUX2
AUX1
AUX0
ADFT
UDT
AUXT
DIDO
DID1
CLR
128CK
BCK
LRCK
260
MONCHS4
MONCHS3
MONCHS2
MONCHS1
MONT
TP260
MON9
MON8
MON7
MON6
MON5
MON4
MON3
MON2
MON1
MON0
MONOUT9
MONOUT8
MONOUT7
MONOUT6
MONOUT5
MONOUT4
MONOUT3
MONOUT2
MONOUT1
MONOUT0
MONOUTT
128
64
1
IC200 (4/9) TC74VHC540F
IC200 (5/9) TC74VHC540F
IC200 (6/9) TC74VHC540F
IC200 (7/9) TC74VHC540F
IC200 (8/9) TC74VHC540F
IC200 (9/9) TC74VHC540F
C200 0.1
200
CNB1
PGMOUT9 PGMAUD 9 B31
PGMOUT8 PGMAUD 8 D30
PGMOUT7 PGMAUD 7 C30
PGMOUT6 PGMAUD 6 B30
PGMOUT5 PGMAUD 5 A30
PGMOUT4 PGMAUD 4 D29
PGMOUT3 PGMAUD 3 C29
PGMOUT2 PGMAUD 2 B29
PGMOUT1 PGMAUD 1 D28
PGMOUT0 PGMAUD 0 C28
PGMOUTT PGMAUD T B28
PSTOUT9 PSTAUD 9 A28
PSTOUT8 PSTAUD 8 D27
PSTOUT7 PSTAUD 7 C27
PSTOUT6 PSTAUD 6 B27
PSTOUT5 PSTAUD 5 D26
PSTOUT4 PSTAUD 4 C26
PSTOUT3 PSTAUD 3 B26
PSTOUT2 PSTAUD 2 A26
PSTOUT1 PSTAUD 1 D25
PSTOUT0 PSTAUD 0 C25
PSTOUTT PSTAUD T B25
MONOUT9 MONAUD 9 D24
MONOUT8 MONAUD 8 C24
MONOUT7 MONAUD 7 B24
MONOUT6 MONAUD 6 A24
MONOUT5 MONAUD 5 D23
MONOUT4 MONAUD 4 C23
MONOUT3 MONAUD 3 B23
MONOUT2 MONAUD 2 D22
MONOUT1 MONAUD 1 C22
MONOUT0 MONAUD 0 B22
MONOUTT MONAUD T A22

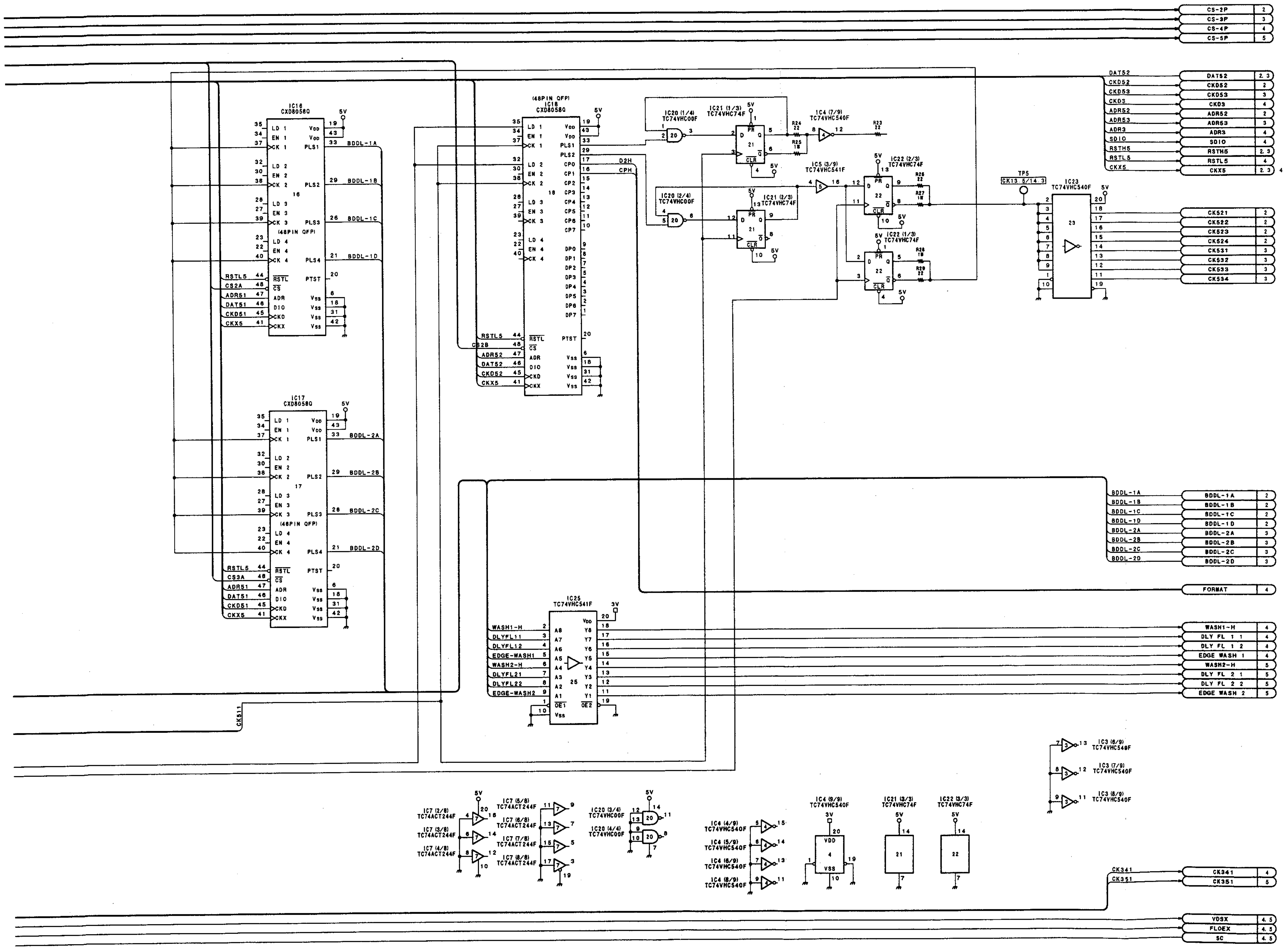
A/V Demultiplex/Multiplex Board
AVD-4 (3/3)
BKDS-M1820
BOARD NO. 1-658-394-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-AVD4

BD-26 (1/5) Key Border Board

BKDS-7270 (SY) : S/N 10001 and Higher

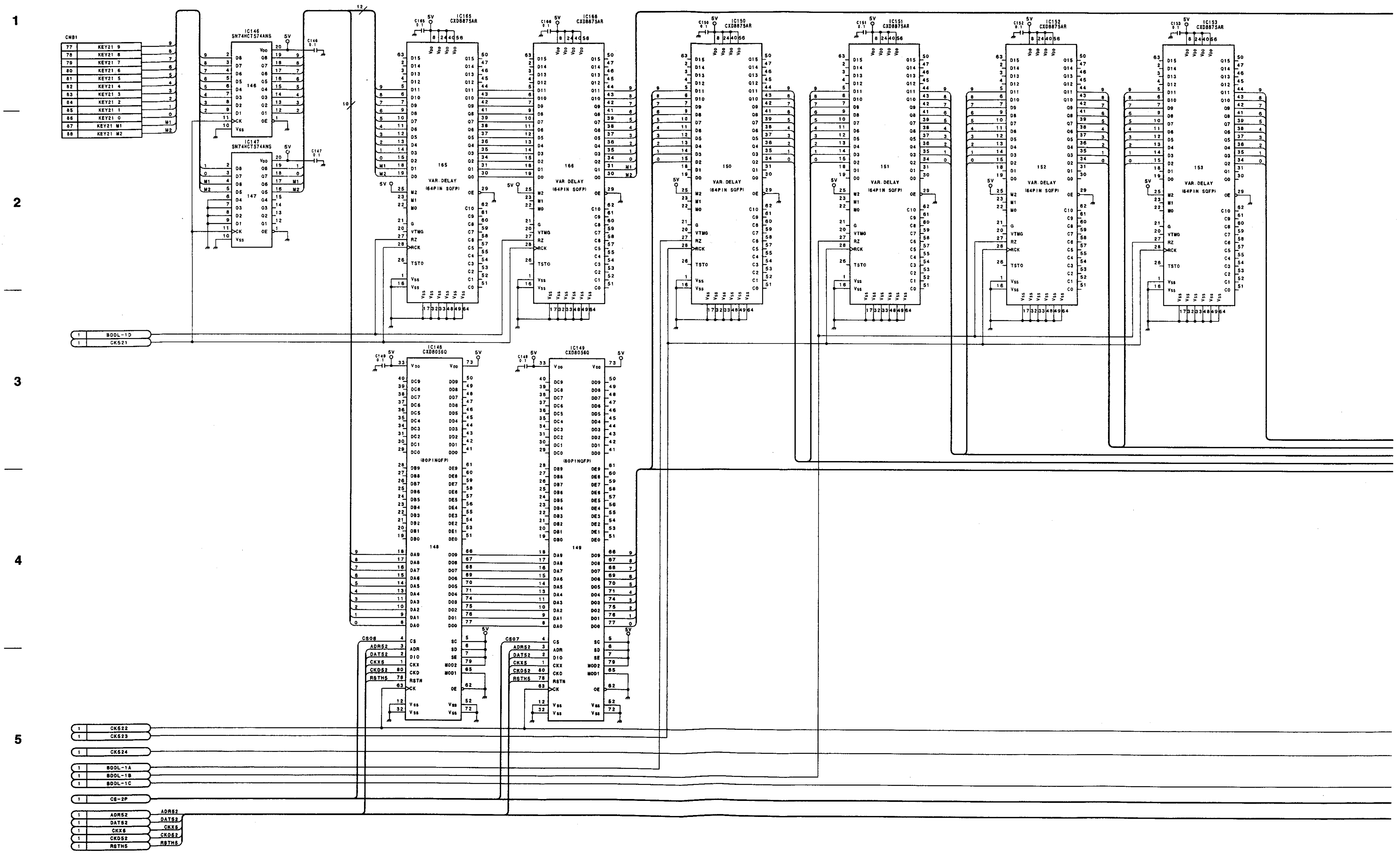

1
2
3
4
5
IC1 CXD8052Q
IC2 CAT35C104K
IC3 (1/9) TC74VHC540F
IC3 (2/9) TC74VHC540F
IC3 (3/9) TC74VHC540F
IC6 (1/8) TC74VHC244F
IC7 (1/8) TC74ACT244F
IC9 TC74VHC541F
IC10 TC74VHC541F
IC11 TC74VHC541F
IC14 CXD8058Q
IC15 CXD8058Q
IC5 (1/9) TC74VHC541F
IC4 (1/9) TC74VHC540F
IC4 (2/9) TC74VHC540F
IC4 (3/9) TC74VHC540F
CNA1
CNB1
CKD
ADR
DI
DO2
OEH2
SLOT 4
SLOT 3
SLOT 2
SLOT 1
RSTLS
CKXS
GND
+5V
+3V
CKSB2A
CKSB1A
HDS
VDSXS
FLOEXS
SC3
TP1 CKD
TP2 ADR
TP3 DIO
TP6 HDS
TP4 CK27/28.6
E1 E2 E3
DLYFL11
DLYFL12
EDGE-WASH1
WASH1-H
DLYFL21
DLYFL22
EDGE-WASH2
WASH2-H
SDIO
RSTHS
CKX512
ADVCKS
CK511
CK512
CK341
CK351

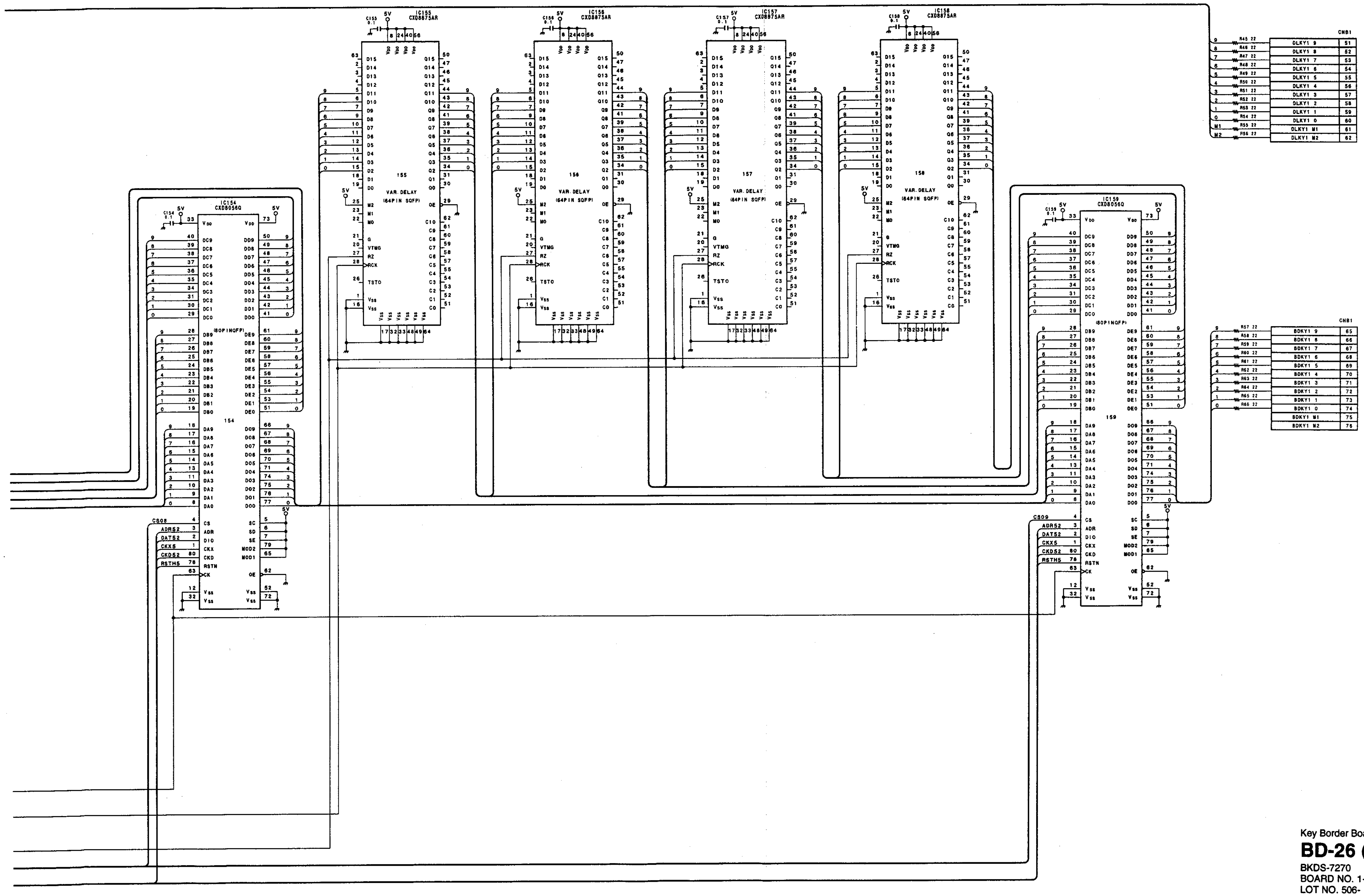
A B C D E F G H


IC16
CXD8058Q
IC17
CXD8058Q
IC18
CXD8058Q
(48PIN QFP)
LD 1
EN 1
CK 1
PLS1
PLS2
PLS3
PLS4
PTST
RSTL
CS
ADR
DIO
CKD
CKX
VDD
VSS
CP0
CP1
CP2
CP3
CP4
CP5
CP6
CP7
DP0
DP1
DP2
DP3
DP4
DP5
DP6
DP7
BDDL-1A
BDDL-1B
BDDL-1C
BDDL-1D
BDDL-2A
BDDL-2B
BDDL-2C
BDDL-2D
RSTL5
CS2A
CS3A
CS2B
ADR51
DAT51
CKD51
ADR52
DAT52
CKD52
CKX5
D2H
CPH
IC20 (1/4) TC74VHC00F
IC20 (2/4) TC74VHC00F
IC20 (3/4) TC74VHC00F
IC20 (4/4) TC74VHC00F
IC21 (1/3) TC74VHC74F
IC21 (2/3) TC74VHC74F
IC21 (3/3) TC74VHC74F
IC22 (1/3) TC74VHC74F
IC22 (2/3) TC74VHC74F
IC22 (3/3) TC74VHC74F
IC4 (7/9) TC74VHC540F
IC4 (4/9) TC74VHC540F
IC4 (5/9) TC74VHC540F
IC4 (6/9) TC74VHC540F
IC4 (8/9) TC74VHC540F
IC4 (9/9) TC74VHC540F
IC5 (3/9) TC74VHC541F
IC23 TC74VHC540F
IC25 TC74VHC541F
IC7 (2/8) TC74ACT244F
IC7 (3/8) TC74ACT244F
IC7 (4/8) TC74ACT244F
IC7 (5/8) TC74ACT244F
IC7 (6/8) TC74ACT244F
IC7 (7/8) TC74ACT244F
IC7 (8/8) TC74ACT244F
IC3 (6/9) TC74VHC540F
IC3 (7/9) TC74VHC540F
IC3 (8/9) TC74VHC540F
TP5
CK13 5/14 3
R22
R23
R24
R25
R26
R27
R28
R29
5V
3V
CS-2P
CS-3P
CS-4P
CS-5P
DAT52
CKD52
CKD53
CKD3
ADR52
ADR53
ADR3
SDIO
RSTH5
RSTL5
CKX5
CK521
CK522
CK523
CK524
CK531
CK532
CK533
CK534
FORMAT
WASH1-H
DLYFL11
DLYFL12
EDGE-WASH1
WASH2-H
DLYFL21
DLYFL22
EDGE-WASH2
DLY FL 1 1
DLY FL 1 2
EDGE WASH 1
DLY FL 2 1
DLY FL 2 2
EDGE WASH 2
CK511
CK341
CK351
VDSX
FLDEX
SC
1
2
3
4
5
I
J
K
L
M
N
O
P

Key Border Board
BD-26 (1/5)
BKDS-7270
BOARD NO. 1-658-398-11
LOT NO. 506-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-BD26

BKDS-7270 (SY) : S/N 10001 and Higher

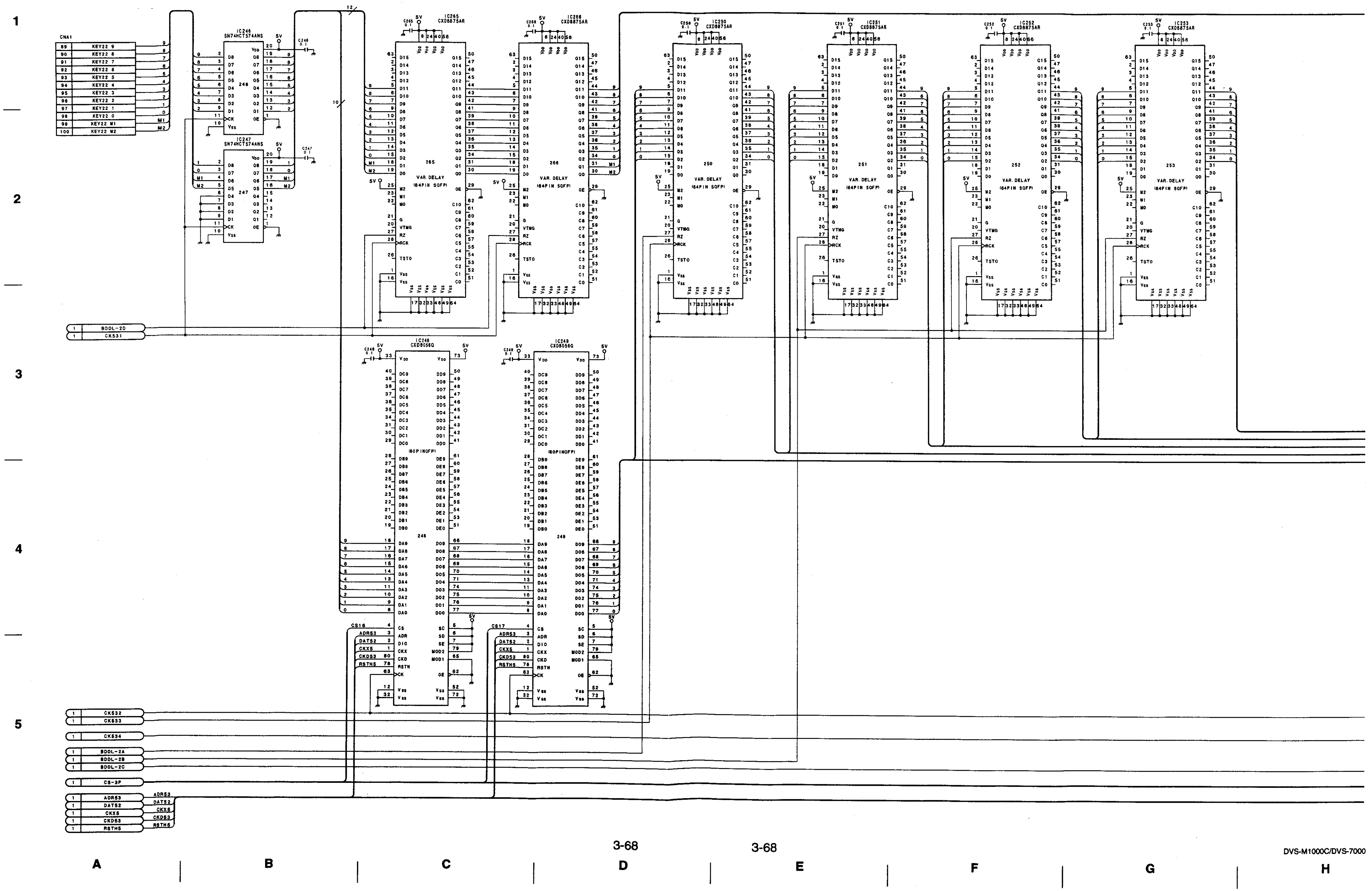

CN81
KEY21 9
KEY21 8
KEY21 7
KEY21 6
KEY21 5
KEY21 4
KEY21 3
KEY21 2
KEY21 1
KEY21 0
KEY21 M1
KEY21 M2
IC146 SN74HCT574ANS
IC147 SN74HCT574ANS
IC165 CXD8875AR
IC166 CXD8875AR
IC150 CXD8875AR
IC151 CXD8875AR
IC152 CXD8875AR
IC153 CXD8875AR
VAR. DELAY (64PIN SQFP)
IC148 CXD8056Q
IC149 CXD8056Q
(80PINQFP)
5V
BDDL-1D
CK521
CK522
CK523
CK524
BDDL-1A
BDDL-1B
BDDL-1C
CS-2P
ADRS2
DATS2
CKX6
CKDS2
RSTHS
CS06
CS07
1
2
3
4
5
A
B
C
D
E
F
G
H


IC155 CXD8875AR
C155 0.1
IC156 CXD8875AR
C156 0.1
IC157 CXD8875AR
C157 0.1
IC158 CXD8875AR
C158 0.1
VAR. DELAY (64PIN SQFP)
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G VTMG RZ RCK TSTO OE
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
VDD VSS 5V
IC154 CXD8056Q
C154 0.1
IC159 CXD8056Q
C159 0.1
(80PINQFP)
DC9 DC8 DC7 DC6 DC5 DC4 DC3 DC2 DC1 DC0
DD9 DD8 DD7 DD6 DD5 DD4 DD3 DD2 DD1 DD0
DB9 DB8 DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0
DE9 DE8 DE7 DE6 DE5 DE4 DE3 DE2 DE1 DE0
DA9 DA8 DA7 DA6 DA5 DA4 DA3 DA2 DA1 DA0
DO9 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 DO0
CS ADR DIO CKX CKD RSTN CK SC SD SE MOD2 MOD1 OE
CS08 ADRS2 DATS2 CKXS CKDS2 RSTHS
CS09
CNB1
R45 22 DLKY1 9 51
R46 22 DLKY1 8 52
R47 22 DLKY1 7 53
R48 22 DLKY1 6 54
R49 22 DLKY1 5 55
R50 22 DLKY1 4 56
R51 22 DLKY1 3 57
R52 22 DLKY1 2 58
R53 22 DLKY1 1 59
R54 22 DLKY1 0 60
R55 22 DLKY1 M1 61
R56 22 DLKY1 M2 62
CNB1
R57 22 BDKY1 9 65
R58 22 BDKY1 8 66
R59 22 BDKY1 7 67
R60 22 BDKY1 6 68
R61 22 BDKY1 5 69
R62 22 BDKY1 4 70
R63 22 BDKY1 3 71
R64 22 BDKY1 2 72
R65 22 BDKY1 1 73
R66 22 BDKY1 0 74
BDKY1 M1 75
BDKY1 M2 76
1
2
3
4
5
I J K L M N O P

Key Border Board
BD-26 (2/5)
BKDS-7270
BOARD NO. 1-658-398-11
LOT NO. 506-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-BD26

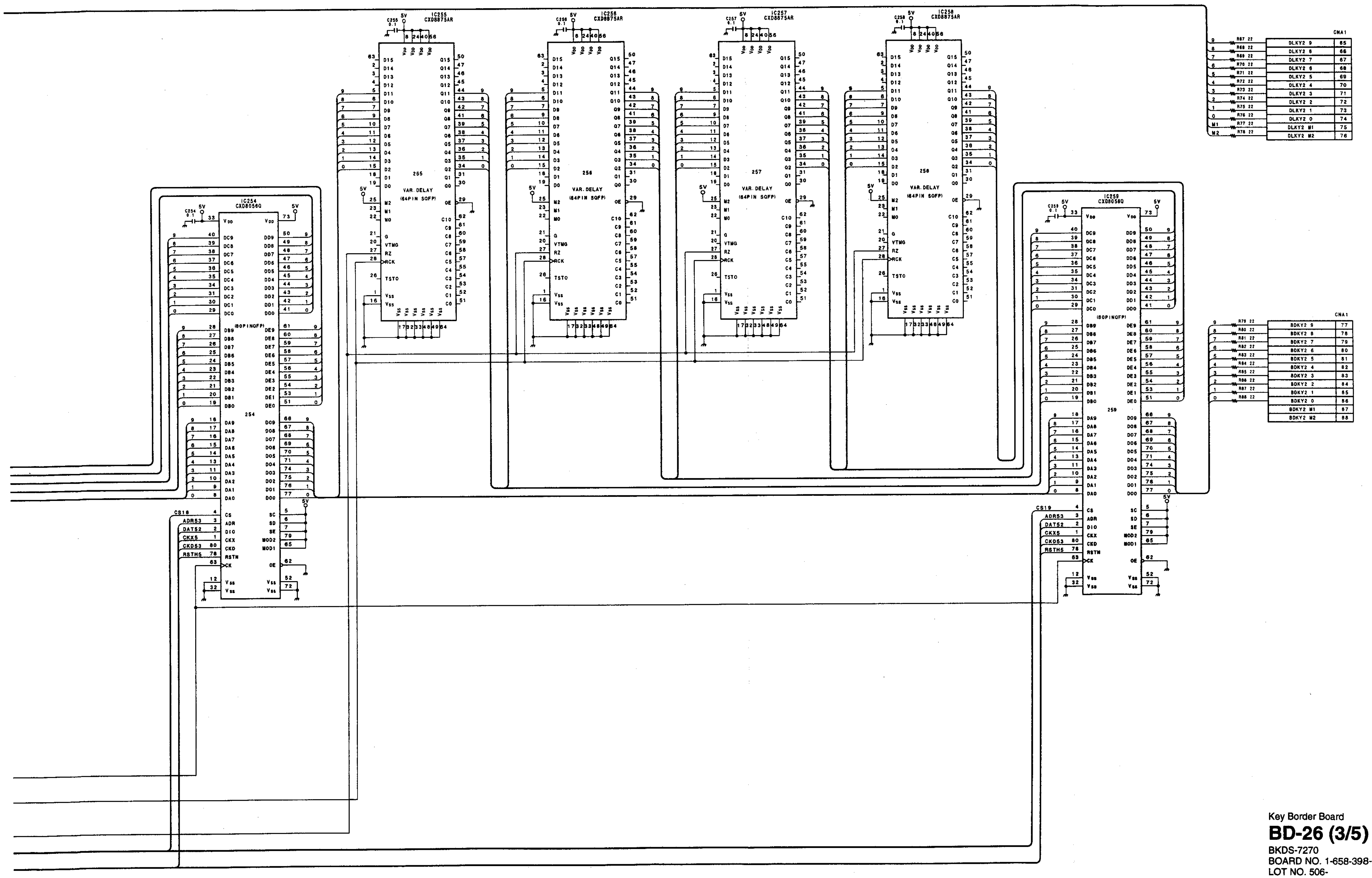
BD-26 (3/5) Key Border Board

BKDS-7270 (SY) : S/N 10001 and Higher



1
2
3
4
5
A
B
C
D
E
F
G
H
CNA1
KEY22 9
KEY22 8
KEY22 7
KEY22 6
KEY22 5
KEY22 4
KEY22 3
KEY22 2
KEY22 1
KEY22 0
KEY22 M1
KEY22 M2
IC246
SN74HCT574ANS
IC247
SN74HCT574ANS
IC265
CXD8875AR
IC266
CXD8875AR
IC250
CXD8875AR
IC251
CXD8875AR
IC252
CXD8875AR
IC253
CXD8875AR
VAR. DELAY
(64PIN SQFP)
IC248
CXD8056Q
IC249
CXD8056Q
(80PIN QFP)
5V
BDDL-2D
CKS31
CKS32
CKS33
CKS34
BDDL-2A
BDDL-2B
BDDL-2C
CS-3P
ADRS3
DATS2
CKXS
CKDS3
RSTHS
CS16
CS17

3-68


IC255 CXD8875AR
IC256 CXD8875AR
IC257 CXD8875AR
IC258 CXD8875AR
VAR. DELAY (64PIN SOFP)
C255 0.1
C256 0.1
C257 0.1
C258 0.1
5V
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G VTMG RZ RCK TSTO OE
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
VDD VSS
IC254 CXD8056Q
IC259 CXD8056Q
(80PINQFP)
C254 0.1
C259 0.1
DC9 DC8 DC7 DC6 DC5 DC4 DC3 DC2 DC1 DC0
DD9 DD8 DD7 DD6 DD5 DD4 DD3 DD2 DD1 DD0
DB9 DB8 DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0
DE9 DE8 DE7 DE6 DE5 DE4 DE3 DE2 DE1 DE0
DA9 DA8 DA7 DA6 DA5 DA4 DA3 DA2 DA1 DA0
DO9 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 DO0
CS ADR DIO CKX CKD RSTN CK
SC SD SE MOD2 MOD1 OE
CS18 ADRS3 DATS2 CKX5 CKDS3 RSTH5
CS19 ADRS3 DATS2 CKX5 CKDS3 RSTH5
CNA1
R67 22 R68 22 R69 22 R70 22 R71 22 R72 22 R73 22 R74 22 R75 22 R76 22 R77 22 R78 22
DLKY2 9 65
DLKY2 8 66
DLKY2 7 67
DLKY2 6 68
DLKY2 5 69
DLKY2 4 70
DLKY2 3 71
DLKY2 2 72
DLKY2 1 73
DLKY2 0 74
DLKY2 M1 75
DLKY2 M2 76
CNA1
R79 22 R80 22 R81 22 R82 22 R83 22 R84 22 R85 22 R86 22 R87 22 R88 22
BDKY2 9 77
BDKY2 8 78
BDKY2 7 79
BDKY2 6 80
BDKY2 5 81
BDKY2 4 82
BDKY2 3 83
BDKY2 2 84
BDKY2 1 85
BDKY2 0 86
BDKY2 M1 87
BDKY2 M2 88

Key Border Board
BD-26 (3/5)
BKDS-7270
BOARD NO. 1-658-398-11
LOT NO. 506-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-BD26

BKDS-7270 (SY) : S/N 10001 and Higher

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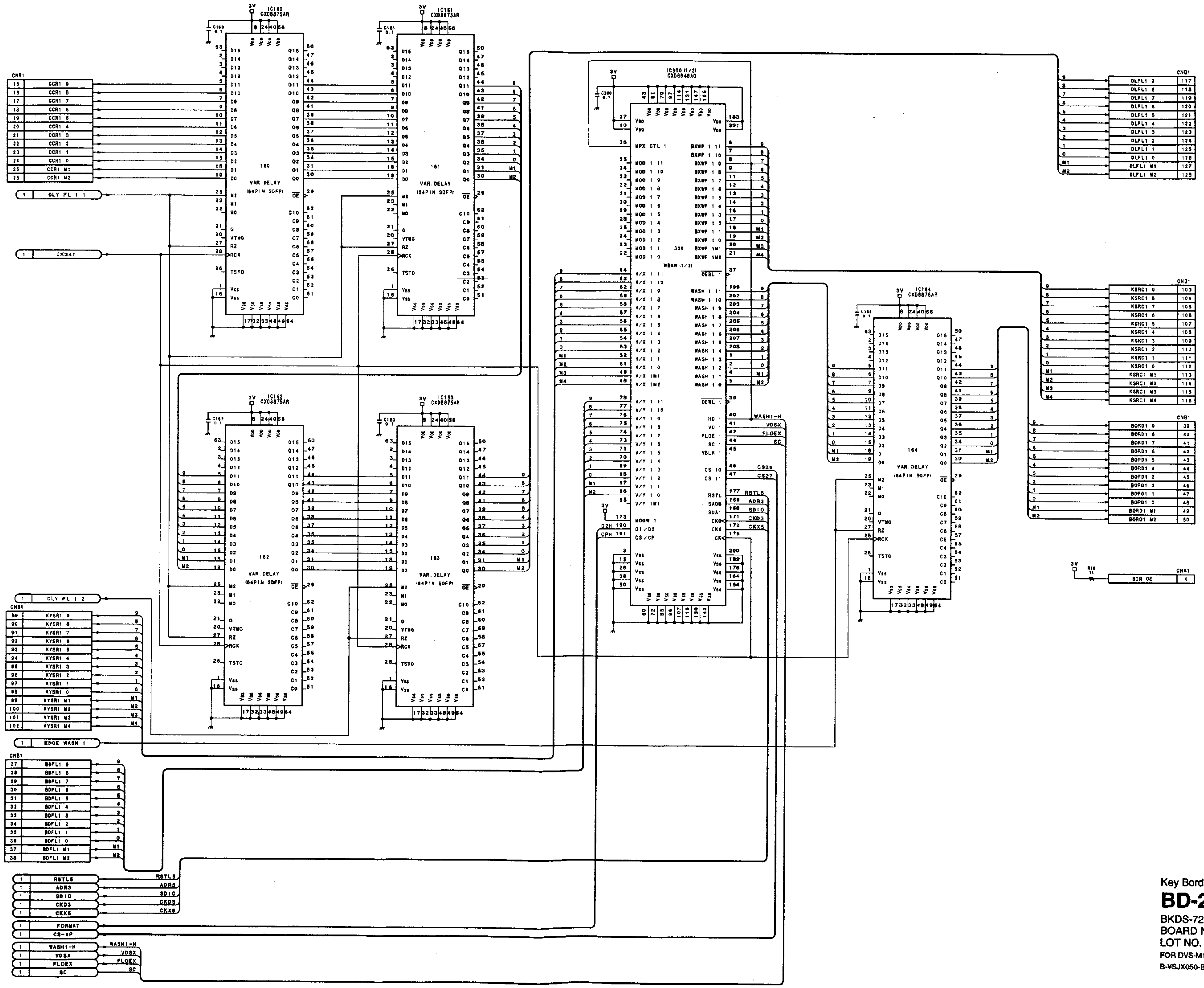

IC160 CXD8875AR
IC161 CXD8875AR
IC162 CXD8875AR
IC163 CXD8875AR
IC164 CXD8875AR
IC300 (1/2) CXD8848AQ
VAR. DELAY (64PIN SQFP)
WBWM (1/2)
3V
CN81
CCR1 9
CCR1 8
CCR1 7
CCR1 6
CCR1 5
CCR1 4
CCR1 3
CCR1 2
CCR1 1
CCR1 0
CCR1 M1
CCR1 M2
DLY FL 1 1
CK341
DLY FL 1 2
KYSR1 9
KYSR1 8
KYSR1 7
KYSR1 6
KYSR1 5
KYSR1 4
KYSR1 3
KYSR1 2
KYSR1 1
KYSR1 0
KYSR1 M1
KYSR1 M2
KYSR1 M3
KYSR1 M4
EDGE WASH 1
BDFL1 9
BDFL1 8
BDFL1 7
BDFL1 6
BDFL1 5
BDFL1 4
BDFL1 3
BDFL1 2
BDFL1 1
BDFL1 0
BDFL1 M1
BDFL1 M2
RSTLS
ADR3
SDIO
CKD3
CKXS
FORMAT
CS-4P
WASH1-H
VDBX
FLOEX
SC
DLFL1 9
DLFL1 8
DLFL1 7
DLFL1 6
DLFL1 5
DLFL1 4
DLFL1 3
DLFL1 2
DLFL1 1
DLFL1 0
DLFL1 M1
DLFL1 M2
KSRC1 9
KSRC1 8
KSRC1 7
KSRC1 6
KSRC1 5
KSRC1 4
KSRC1 3
KSRC1 2
KSRC1 1
KSRC1 0
KSRC1 M1
KSRC1 M2
KSRC1 M3
KSRC1 M4
BORD1 9
BORD1 8
BORD1 7
BORD1 6
BORD1 5
BORD1 4
BORD1 3
BORD1 2
BORD1 1
BORD1 0
BORD1 M1
BORD1 M2
CNA1
BOR OE

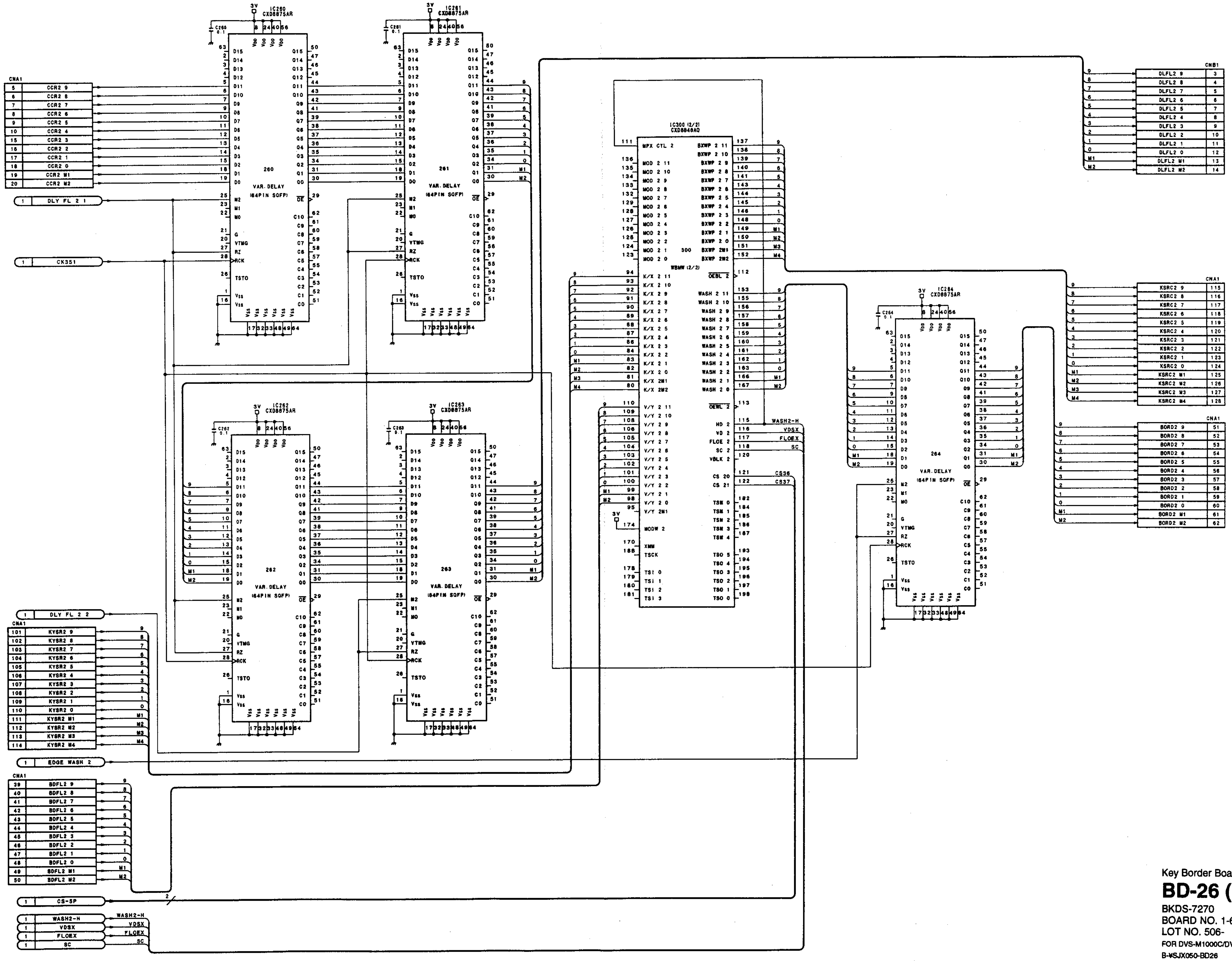
Key Border Board

BD-26 (4/5)

BKDS-7270
BOARD NO. 1-658-398-11
LOT NO. 506-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-BD26

A B C D E F G H

BKDS-7270 (SY) : S/N 10001 and Higher


IC260 CXD8875AR
IC261 CXD8875AR
IC262 CXD8875AR
IC263 CXD8875AR
IC264 CXD8875AR
IC300 (2/2) CXD8848AQ
VAR. DELAY (64PIN SQFP)
3V
CNA1
CNB1
CCR2 9
CCR2 8
CCR2 7
CCR2 6
CCR2 5
CCR2 4
CCR2 3
CCR2 2
CCR2 1
CCR2 0
CCR2 M1
CCR2 M2
DLY FL 2 1
CK351
DLY FL 2 2
KYSR2 9
KYSR2 8
KYSR2 7
KYSR2 6
KYSR2 5
KYSR2 4
KYSR2 3
KYSR2 2
KYSR2 1
KYSR2 0
KYSR2 M1
KYSR2 M2
KYSR2 M3
KYSR2 M4
EDGE WASH 2
BDFL2 9
BDFL2 8
BDFL2 7
BDFL2 6
BDFL2 5
BDFL2 4
BDFL2 3
BDFL2 2
BDFL2 1
BDFL2 0
BDFL2 M1
BDFL2 M2
CS-SP
WASH2-H
VDSX
FLOEX
SC
DLFL2 9
DLFL2 8
DLFL2 7
DLFL2 6
DLFL2 5
DLFL2 4
DLFL2 3
DLFL2 2
DLFL2 1
DLFL2 0
DLFL2 M1
DLFL2 M2
KSRC2 9
KSRC2 8
KSRC2 7
KSRC2 6
KSRC2 5
KSRC2 4
KSRC2 3
KSRC2 2
KSRC2 1
KSRC2 0
KSRC2 M1
KSRC2 M2
KSRC2 M3
KSRC2 M4
BORD2 9
BORD2 8
BORD2 7
BORD2 6
BORD2 5
BORD2 4
BORD2 3
BORD2 2
BORD2 1
BORD2 0
BORD2 M1
BORD2 M2
CS36
CS37

Key Border Board
BD-26 (5/5)
BKDS-7270
BOARD NO. 1-658-398-11
LOT NO. 506-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-BD26

Connector Board **CN-1140** **CN-1140** Connector Board

DVS-M1000C (SY) : S/N 10001 and Higher

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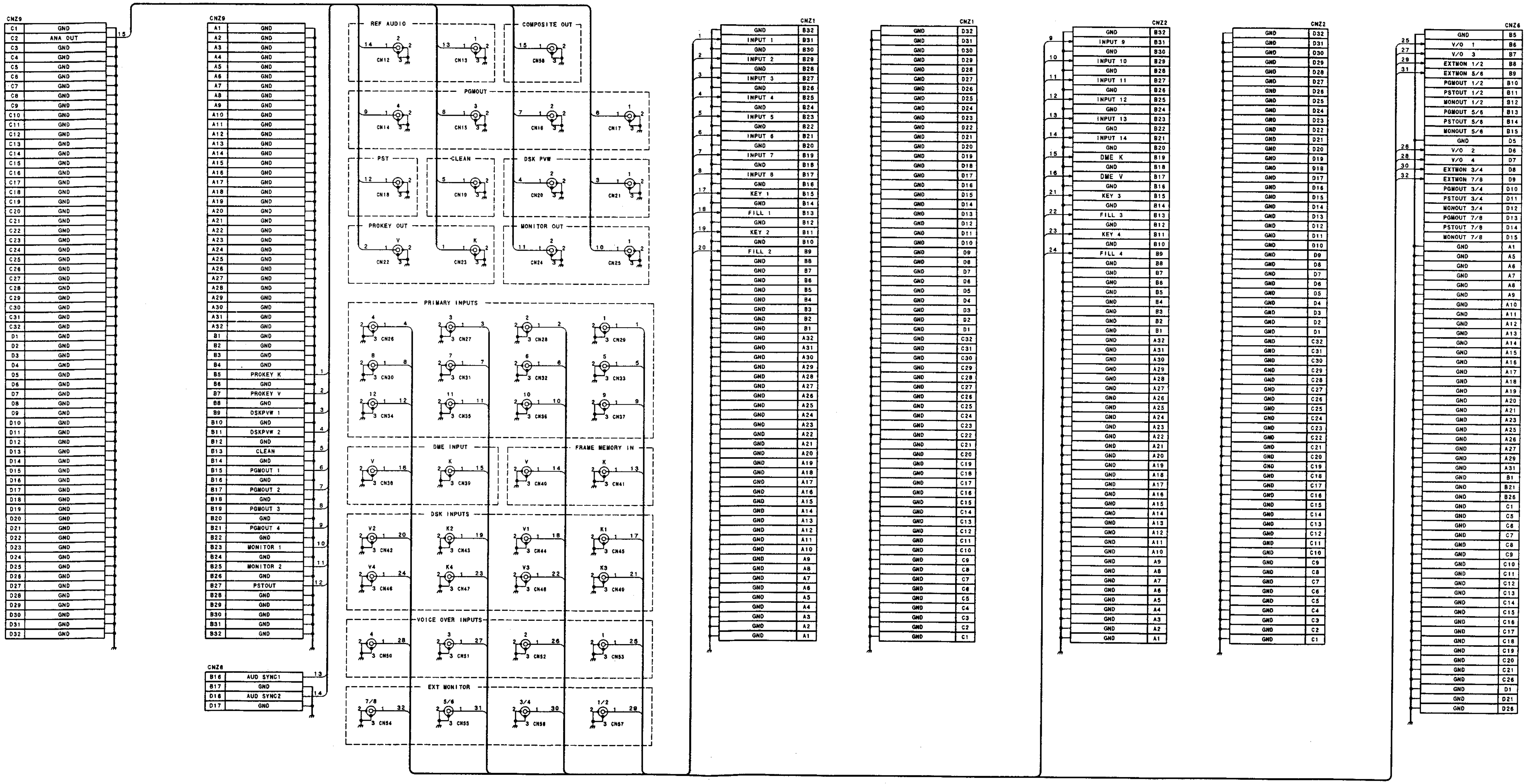
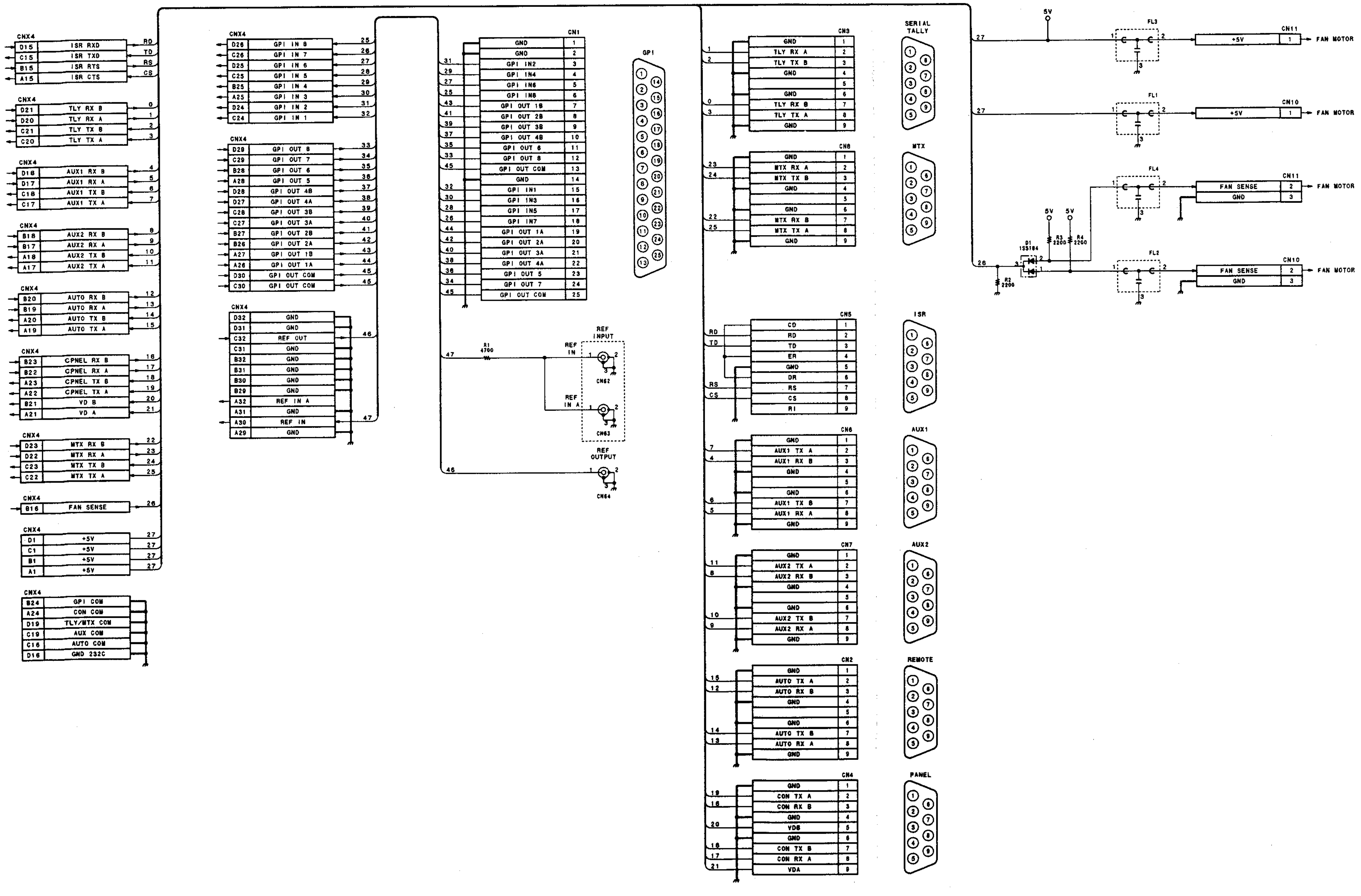


CNZ9
ANA OUT
GND
CNZ8
AUD SYNC1
AUD SYNC2
PROKEY K
PROKEY V
DSKPVW 1
DSKPVW 2
CLEAN
PGMOUT 1
PGMOUT 2
PGMOUT 3
PGMOUT 4
MONITOR 1
MONITOR 2
PSTOUT
REF AUDIO
COMPOSITE OUT
PGMOUT
PST
CLEAN
DSK PVW
PROKEY OUT
MONITOR OUT
PRIMARY INPUTS
DME INPUT
FRAME MEMORY IN
DSK INPUTS
VOICE OVER INPUTS
EXT MONITOR
CNZ1
INPUT 1
INPUT 2
INPUT 3
INPUT 4
INPUT 5
INPUT 6
INPUT 7
INPUT 8
KEY 1
FILL 1
KEY 2
FILL 2
CNZ2
INPUT 9
INPUT 10
INPUT 11
INPUT 12
INPUT 13
INPUT 14
DME K
DME V
KEY 3
FILL 3
KEY 4
FILL 4
CNZ6
V/O 1
V/O 3
EXTMON 1/2
EXTMON 5/6
PGMOUT 1/2
PSTOUT 1/2
MONOUT 1/2
PGMOUT 5/6
PSTOUT 5/6
MONOUT 5/6
V/O 2
V/O 4
EXTMON 3/4
EXTMON 7/8
PGMOUT 3/4
PSTOUT 3/4
MONOUT 3/4
PGMOUT 7/8
PSTOUT 7/8
MONOUT 7/8

A B C D E F G H


CNX4
ISR RXD
ISR TXD
ISR RTS
ISR CTS
TLY RX B
TLY RX A
TLY TX B
TLY TX A
AUX1 RX B
AUX1 RX A
AUX1 TX B
AUX1 TX A
AUX2 RX B
AUX2 RX A
AUX2 TX B
AUX2 TX A
AUTO RX B
AUTO RX A
AUTO TX B
AUTO TX A
CPNEL RX B
CPNEL RX A
CPNEL TX B
CPNEL TX A
VD B
VD A
MTX RX B
MTX RX A
MTX TX B
MTX TX A
FAN SENSE
+5V
GPI COM
CON COM
TLY/MTX COM
AUX COM
AUTO COM
GND 232C
GPI IN 8
GPI IN 7
GPI IN 6
GPI IN 5
GPI IN 4
GPI IN 3
GPI IN 2
GPI IN 1
GPI OUT 8
GPI OUT 7
GPI OUT 6
GPI OUT 5
GPI OUT 4B
GPI OUT 4A
GPI OUT 3B
GPI OUT 3A
GPI OUT 2B
GPI OUT 2A
GPI OUT 1B
GPI OUT 1A
GPI OUT COM
GND
REF OUT
REF IN A
REF IN
CN1
GPI
R1 4700
REF INPUT
REF IN
REF IN A
CN62
CN63
REF OUTPUT
CN64
CN3
SERIAL TALLY
CN8
MTX
CN5
ISR
CD
RD
TD
ER
DR
RS
CS
RI
CN6
AUX1
CN7
AUX2
CN2
REMOTE
CN4
PANEL
CON TX A
CON RX B
VDB
CON TX B
CON RX A
VDA
5V
FL3
FL1
FL4
FL2
CN11
CN10
FAN MOTOR
FAN SENSE
D1 1SS184
R3 2200
R4 2200
R2 2200

Connector Board
CN-1140
DVS-M1000C
BOARD NO. 1-658-389-11
LOT NO 506-
B-¥SJX053-CN1140

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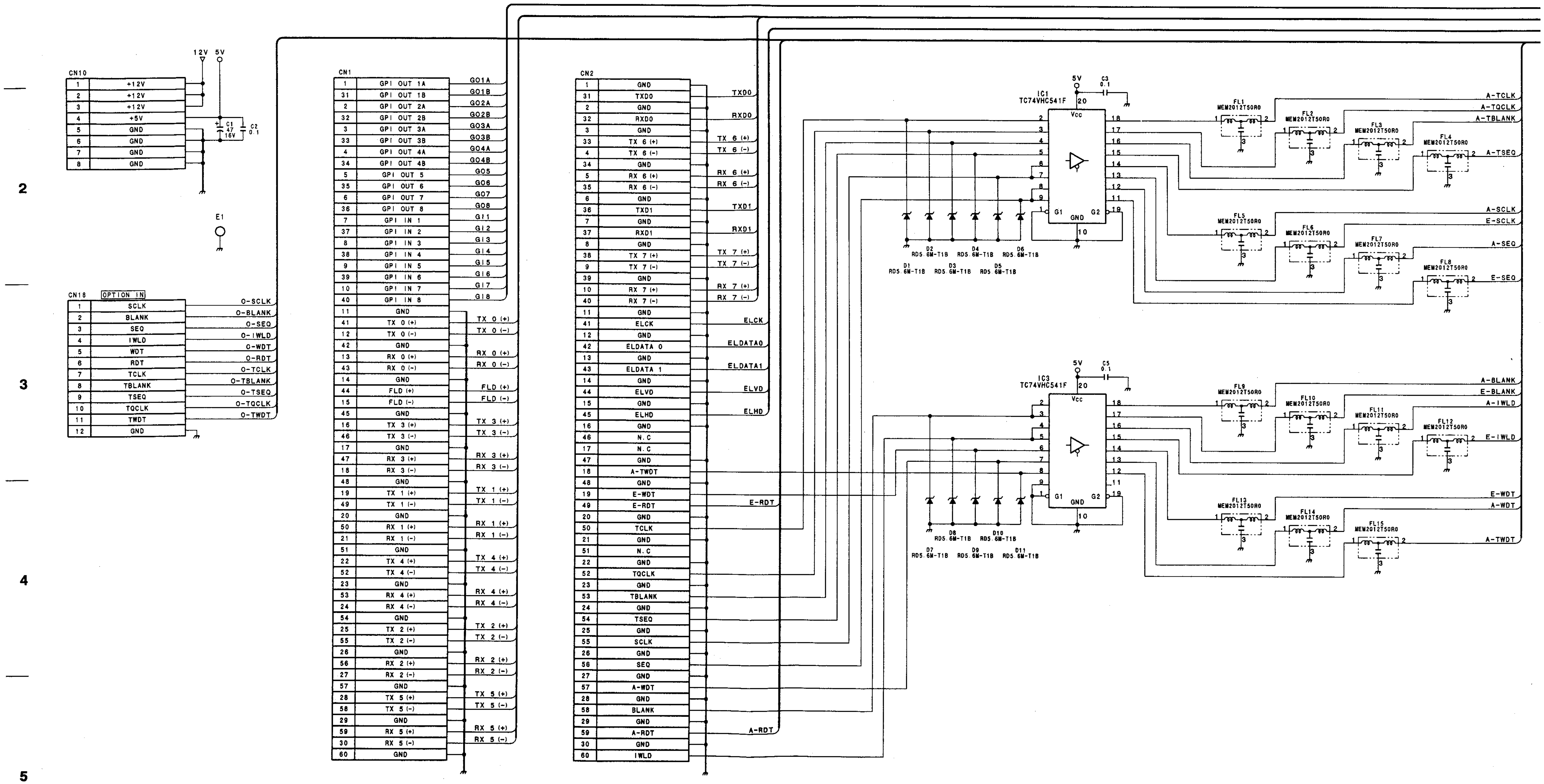
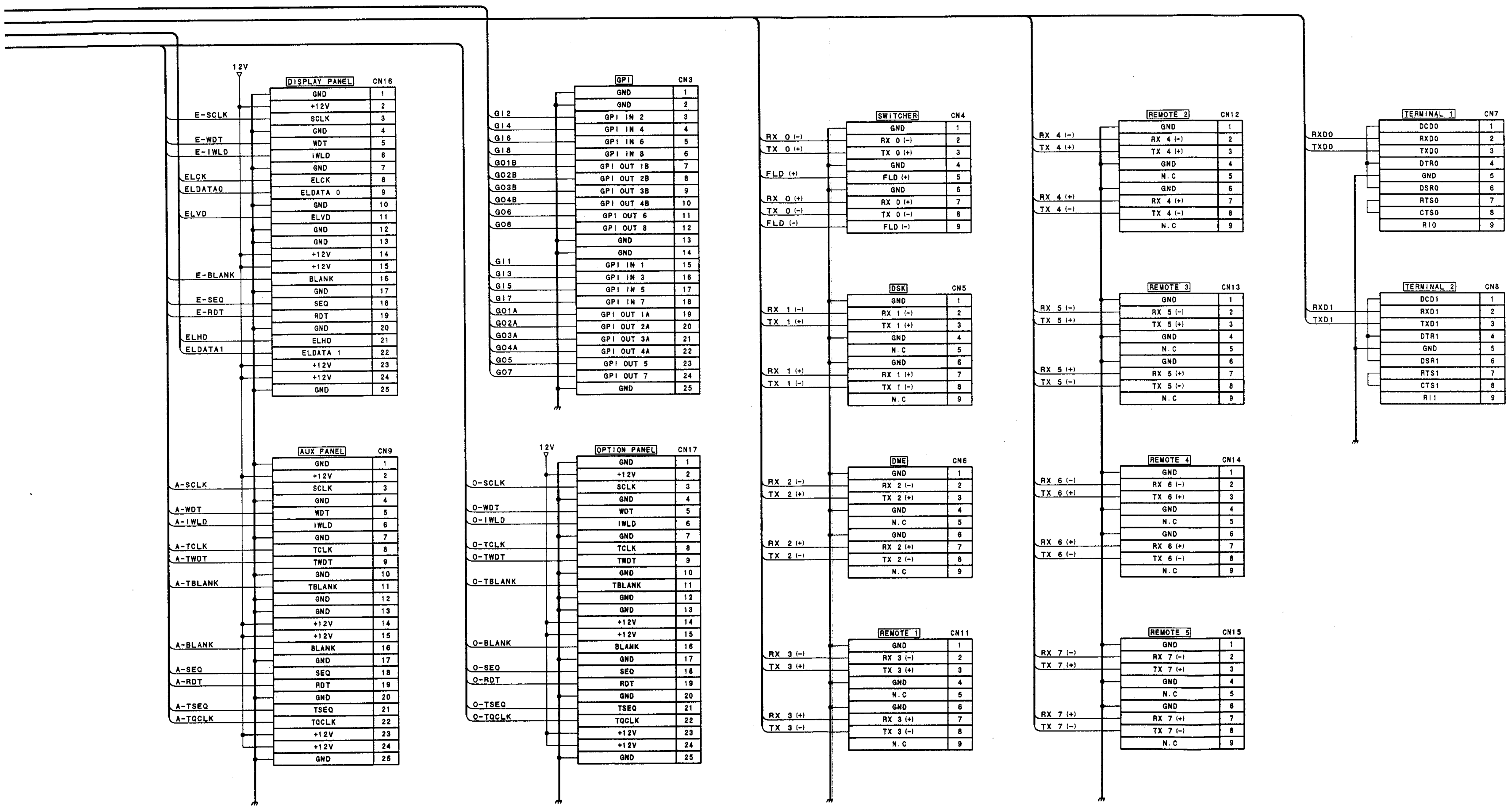
BKDS-7011/7012/7021/7022/7023 (SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R (SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR (SY) : S/N 10001 and Higher



12V 5V
CN10
1 +12V
2 +12V
3 +12V
4 +5V
5 GND
6 GND
7 GND
8 GND
C1 47 16V
C2 0.1
E1
CN18 OPTION IN
1 SCLK
2 BLANK
3 SEQ
4 IWLD
5 WDT
6 RDT
7 TCLK
8 TBLANK
9 TSEQ
10 TQCLK
11 TWDT
12 GND
O-SCLK
O-BLANK
O-SEQ
O-IWLD
O-WDT
O-RDT
O-TCLK
O-TBLANK
O-TSEQ
O-TQCLK
O-TWDT
CN1
1 GPI OUT 1A
31 GPI OUT 1B
2 GPI OUT 2A
32 GPI OUT 2B
3 GPI OUT 3A
33 GPI OUT 3B
4 GPI OUT 4A
34 GPI OUT 4B
5 GPI OUT 5
35 GPI OUT 6
6 GPI OUT 7
36 GPI OUT 8
7 GPI IN 1
37 GPI IN 2
8 GPI IN 3
38 GPI IN 4
9 GPI IN 5
39 GPI IN 6
10 GPI IN 7
40 GPI IN 8
11 GND
41 TX 0 (+)
12 TX 0 (-)
42 GND
13 RX 0 (+)
43 RX 0 (-)
14 GND
44 FLD (+)
15 FLD (-)
45 GND
16 TX 3 (+)
46 TX 3 (-)
17 GND
47 RX 3 (+)
18 RX 3 (-)
48 GND
19 TX 1 (+)
49 TX 1 (-)
20 GND
50 RX 1 (+)
21 RX 1 (-)
51 GND
22 TX 4 (+)
52 TX 4 (-)
23 GND
53 RX 4 (+)
24 RX 4 (-)
54 GND
25 TX 2 (+)
55 TX 2 (-)
26 GND
56 RX 2 (+)
27 RX 2 (-)
57 GND
28 TX 5 (+)
58 TX 5 (-)
29 GND
59 RX 5 (+)
30 RX 5 (-)
60 GND
GO1A
GO1B
GO2A
GO2B
GO3A
GO3B
GO4A
GO4B
GO5
GO6
GO7
GO8
GI1
GI2
GI3
GI4
GI5
GI6
GI7
GI8
TX 0 (+)
TX 0 (-)
RX 0 (+)
RX 0 (-)
FLD (+)
FLD (-)
TX 3 (+)
TX 3 (-)
RX 3 (+)
RX 3 (-)
TX 1 (+)
TX 1 (-)
RX 1 (+)
RX 1 (-)
TX 4 (+)
TX 4 (-)
RX 4 (+)
RX 4 (-)
TX 2 (+)
TX 2 (-)
RX 2 (+)
RX 2 (-)
TX 5 (+)
TX 5 (-)
RX 5 (+)
RX 5 (-)
CN2
1 GND
31 TXD0
2 GND
32 RXD0
3 GND
33 TX 6 (+)
4 TX 6 (-)
34 GND
5 RX 6 (+)
35 RX 6 (-)
6 GND
36 TXD1
7 GND
37 RXD1
8 GND
38 TX 7 (+)
9 TX 7 (-)
39 GND
10 RX 7 (+)
40 RX 7 (-)
11 GND
41 ELCK
12 GND
42 ELDATA 0
13 GND
43 ELDATA 1
14 GND
44 ELVD
15 GND
45 ELHD
16 GND
46 N.C
17 N.C
47 GND
18 A-TWDT
48 GND
19 E-WDT
49 E-RDT
20 GND
50 TCLK
21 GND
51 N.C
22 GND
52 TQCLK
23 GND
53 TBLANK
24 GND
54 TSEQ
25 GND
55 SCLK
26 GND
56 SEQ
27 GND
57 A-WDT
28 GND
58 BLANK
29 GND
59 A-RDT
30 GND
60 IWLD
TXD0
RXD0
TX 6 (+)
TX 6 (-)
RX 6 (+)
RX 6 (-)
TXD1
RXD1
TX 7 (+)
TX 7 (-)
RX 7 (+)
RX 7 (-)
ELCK
ELDATA0
ELDATA1
ELVD
ELHD
E-RDT
A-RDT
5V
C3 0.1
IC1 TC74VHC541F
Vcc
G1 GND G2
5V
C5 0.1
IC3 TC74VHC541F
D1 RD5.6M-T1B
D2 RD5.6M-T1B
D3 RD5.6M-T1B
D4 RD5.6M-T1B
D5 RD5.6M-T1B
D6 RD5.6M-T1B
D7 RD5.6M-T1B
D8 RD5.6M-T1B
D9 RD5.6M-T1B
D10 RD5.6M-T1B
D11 RD5.6M-T1B
FL1 MEM2012T50R0
FL2 MEM2012T50R0
FL3 MEM2012T50R0
FL4 MEM2012T50R0
FL5 MEM2012T50R0
FL6 MEM2012T50R0
FL7 MEM2012T50R0
FL8 MEM2012T50R0
FL9 MEM2012T50R0
FL10 MEM2012T50R0
FL11 MEM2012T50R0
FL12 MEM2012T50R0
FL13 MEM2012T50R0
FL14 MEM2012T50R0
FL15 MEM2012T50R0
A-TCLK
A-TQCLK
A-TBLANK
A-TSEQ
A-SCLK
E-SCLK
A-SEQ
E-SEQ
A-BLANK
E-BLANK
A-IWLD
E-IWLD
E-WDT
A-WDT
A-TWDT
1
2
3
4
5

A | B | C | D | E | F | G | H

1


12V
DISPLAY PANEL CN16
GND 1
+12V 2
SCLK 3
GND 4
WDT 5
IWLD 6
GND 7
ELCK 8
ELDATA 0 9
GND 10
ELVD 11
GND 12
GND 13
+12V 14
+12V 15
BLANK 16
GND 17
SEQ 18
RDT 19
GND 20
ELHD 21
ELDATA 1 22
+12V 23
+12V 24
GND 25
E-SCLK
E-WDT
E-IWLD
ELCK
ELDATA0
ELVD
E-BLANK
E-SEQ
E-RDT
ELHD
ELDATA1
AUX PANEL CN9
GND 1
+12V 2
SCLK 3
GND 4
WDT 5
IWLD 6
GND 7
TCLK 8
TWDT 9
GND 10
TBLANK 11
GND 12
GND 13
+12V 14
+12V 15
BLANK 16
GND 17
SEQ 18
RDT 19
GND 20
TSEQ 21
TQCLK 22
+12V 23
+12V 24
GND 25
A-SCLK
A-WDT
A-IWLD
A-TCLK
A-TWDT
A-TBLANK
A-BLANK
A-SEQ
A-RDT
A-TSEQ
A-TQCLK
GPI CN3
GND 1
GND 2
GPI IN 2 3
GPI IN 4 4
GPI IN 6 5
GPI IN 8 6
GPI OUT 1B 7
GPI OUT 2B 8
GPI OUT 3B 9
GPI OUT 4B 10
GPI OUT 6 11
GPI OUT 8 12
GND 13
GND 14
GPI IN 1 15
GPI IN 3 16
GPI IN 5 17
GPI IN 7 18
GPI OUT 1A 19
GPI OUT 2A 20
GPI OUT 3A 21
GPI OUT 4A 22
GPI OUT 5 23
GPI OUT 7 24
GND 25
GI2
GI4
GI6
GI8
GO1B
GO2B
GO3B
GO4B
GO6
GO8
GI1
GI3
GI5
GI7
GO1A
GO2A
GO3A
GO4A
GO5
GO7
12V
OPTION PANEL CN17
GND 1
+12V 2
SCLK 3
GND 4
WDT 5
IWLD 6
GND 7
TCLK 8
TWDT 9
GND 10
TBLANK 11
GND 12
GND 13
+12V 14
+12V 15
BLANK 16
GND 17
SEQ 18
RDT 19
GND 20
TSEQ 21
TQCLK 22
+12V 23
+12V 24
GND 25
O-SCLK
O-WDT
O-IWLD
O-TCLK
O-TWDT
O-TBLANK
O-BLANK
O-SEQ
O-RDT
O-TSEQ
O-TQCLK
SWITCHER CN4
GND 1
RX 0 (-) 2
TX 0 (+) 3
GND 4
FLD (+) 5
GND 6
RX 0 (+) 7
TX 0 (-) 8
FLD (-) 9
RX 0 (-)
TX 0 (+)
FLD (+)
RX 0 (+)
TX 0 (-)
FLD (-)
DSK CN5
GND 1
RX 1 (-) 2
TX 1 (+) 3
GND 4
N.C 5
GND 6
RX 1 (+) 7
TX 1 (-) 8
N.C 9
RX 1 (-)
TX 1 (+)
RX 1 (+)
TX 1 (-)
DME CN6
GND 1
RX 2 (-) 2
TX 2 (+) 3
GND 4
N.C 5
GND 6
RX 2 (+) 7
TX 2 (-) 8
N.C 9
RX 2 (-)
TX 2 (+)
RX 2 (+)
TX 2 (-)
REMOTE 1 CN11
GND 1
RX 3 (-) 2
TX 3 (+) 3
GND 4
N.C 5
GND 6
RX 3 (+) 7
TX 3 (-) 8
N.C 9
RX 3 (-)
TX 3 (+)
RX 3 (+)
TX 3 (-)
REMOTE 2 CN12
GND 1
RX 4 (-) 2
TX 4 (+) 3
GND 4
N.C 5
GND 6
RX 4 (+) 7
TX 4 (-) 8
N.C 9
RX 4 (-)
TX 4 (+)
RX 4 (+)
TX 4 (-)
REMOTE 3 CN13
GND 1
RX 5 (-) 2
TX 5 (+) 3
GND 4
N.C 5
GND 6
RX 5 (+) 7
TX 5 (-) 8
N.C 9
RX 5 (-)
TX 5 (+)
RX 5 (+)
TX 5 (-)
REMOTE 4 CN14
GND 1
RX 6 (-) 2
TX 6 (+) 3
GND 4
N.C 5
GND 6
RX 6 (+) 7
TX 6 (-) 8
N.C 9
RX 6 (-)
TX 6 (+)
RX 6 (+)
TX 6 (-)
REMOTE 5 CN15
GND 1
RX 7 (-) 2
TX 7 (+) 3
GND 4
N.C 5
GND 6
RX 7 (+) 7
TX 7 (-) 8
N.C 9
RX 7 (-)
TX 7 (+)
RX 7 (+)
TX 7 (-)
TERMINAL 1 CN7
DCD0 1
RXD0 2
TXD0 3
DTR0 4
GND 5
DSR0 6
RTS0 7
CTS0 8
RI0 9
RXD0
TXD0
TERMINAL 2 CN8
DCD1 1
RXD1 2
TXD1 3
DTR1 4
GND 5
DSR1 6
RTS1 7
CTS1 8
RI1 9
RXD1
TXD1

2

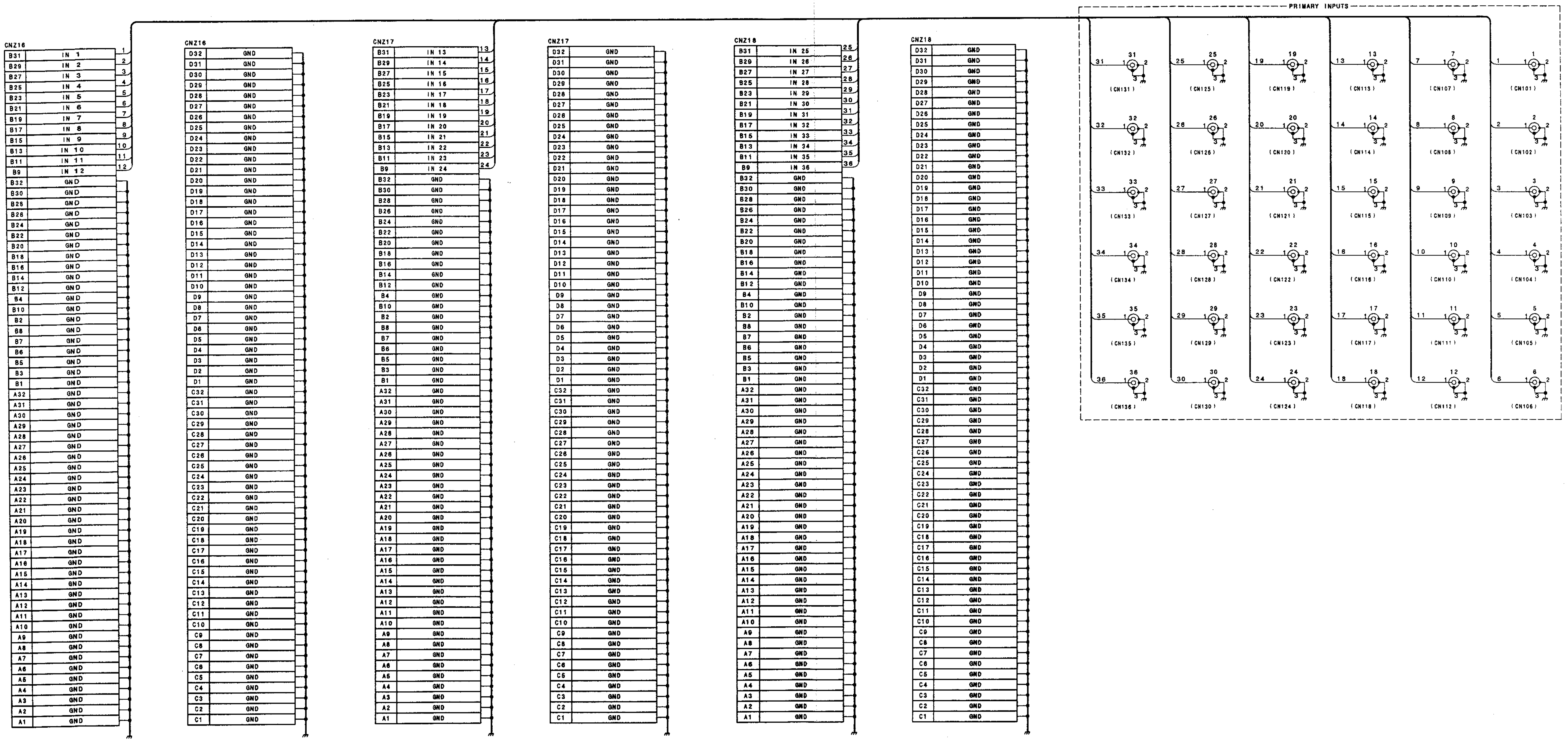
3

4

5

Connector Board
CN-1143
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-283-11
BKDS-7011/7021/7022 : LOT NO. 505-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CN1143

DVS-7000 (SY) : S/N 10001 and Higher

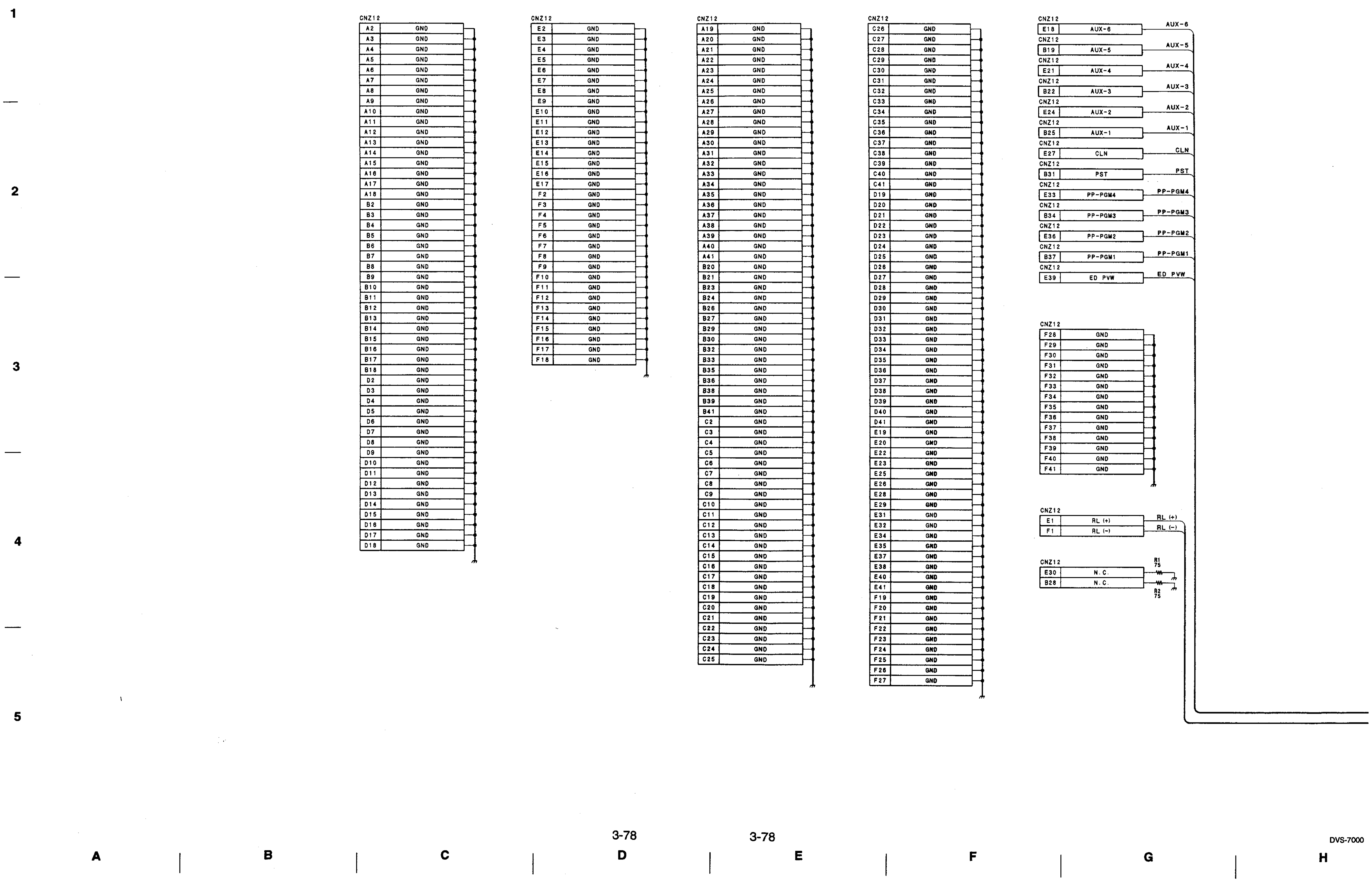

CNZ16
CNZ17
CNZ18
PRIMARY INPUTS
IN 1 … IN 36
GND

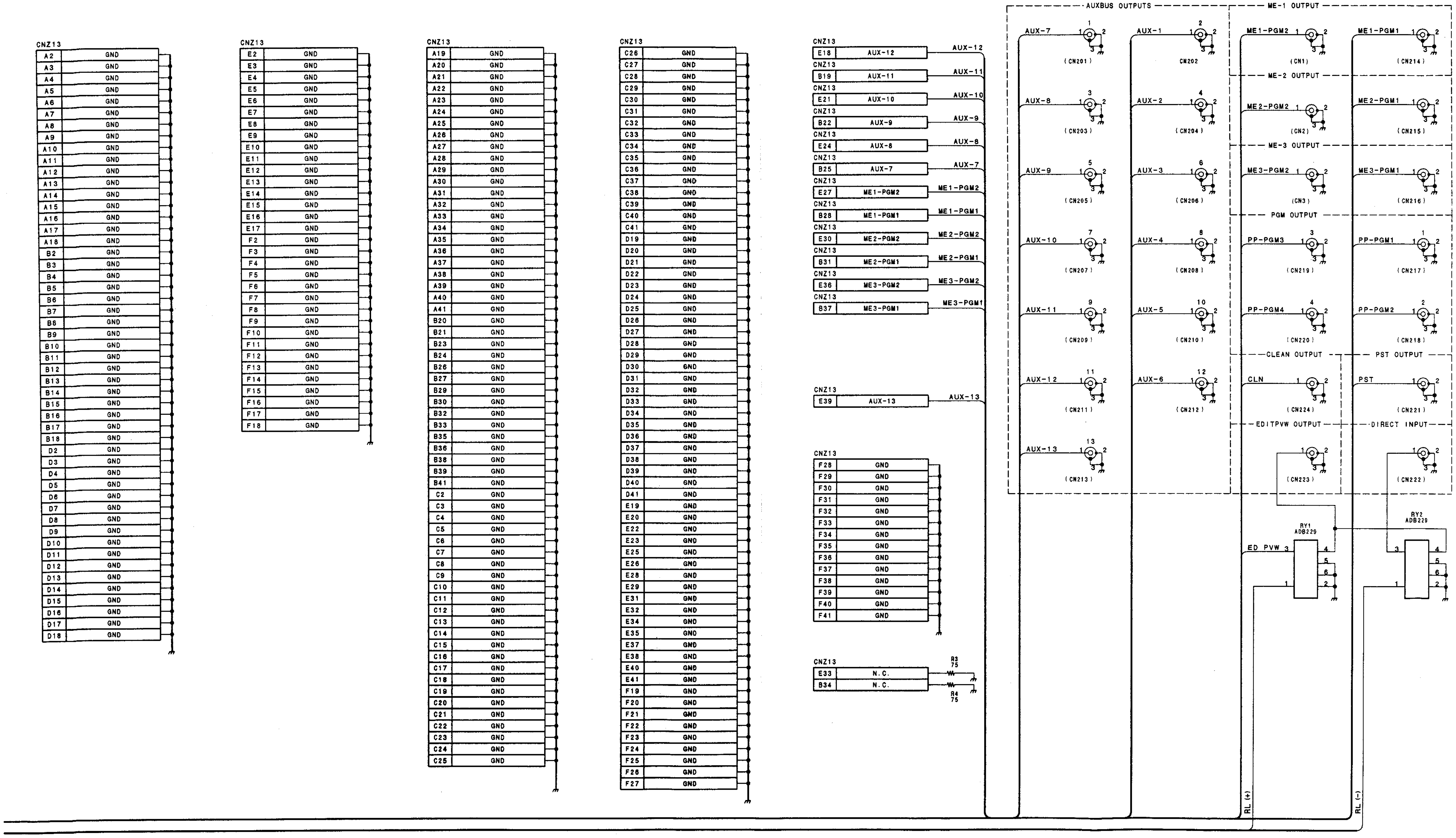
Connector Board
CN-1145 (1/2)
DVS-7000
BOARD NO. 1-658-400-11/12
LOT NO. 507-
B-¥SJX050-CN1145

Connector Board CN-1145 (2/2)

CN-1145 (2/2) Connector Board

DVS-7000 (SY) : S/N 10001 and Higher

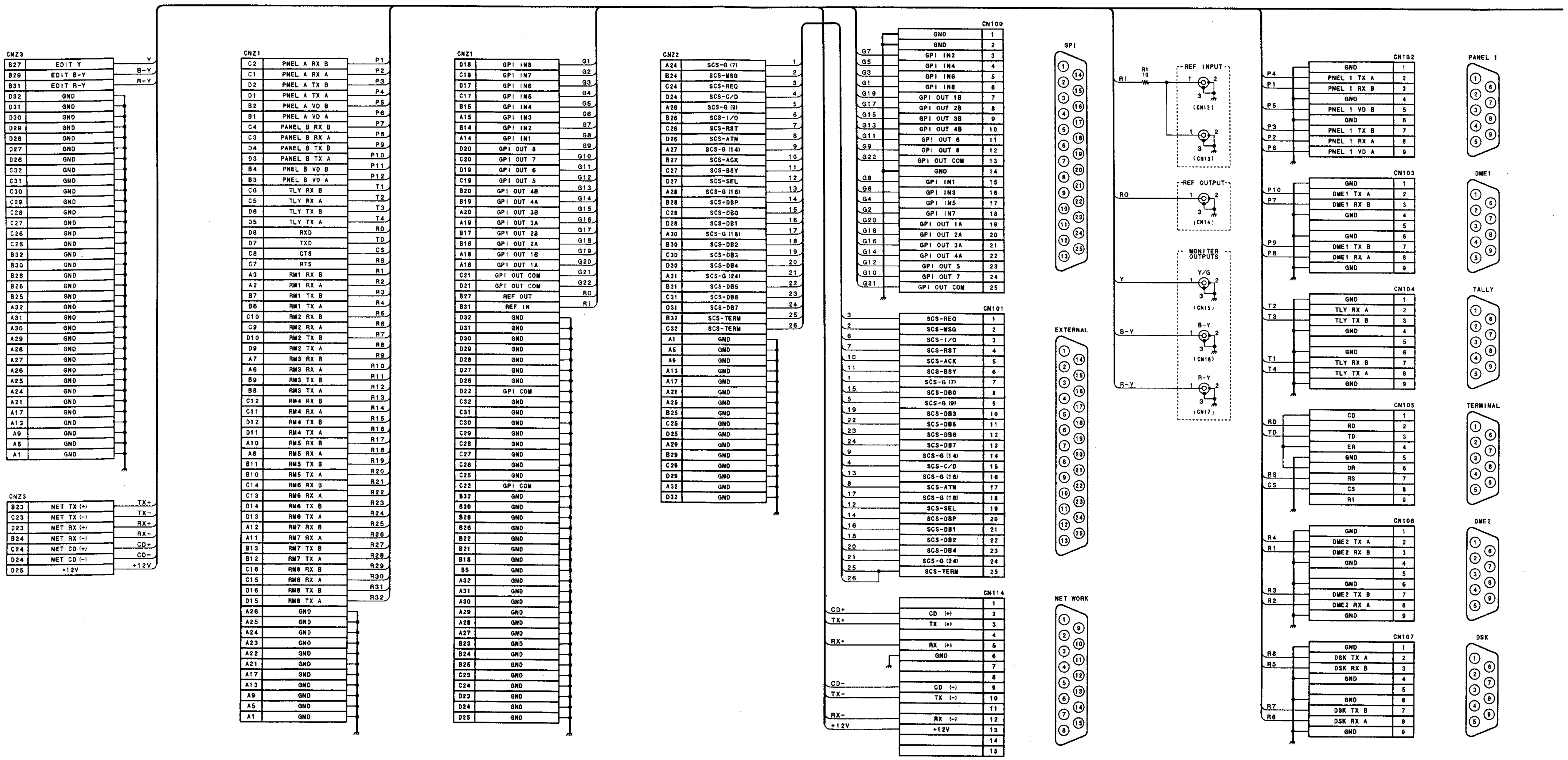

1
2
3
4
5
A
B
C
D
E
F
G
H
CNZ12
A2 GND
A3 GND
A4 GND
A5 GND
A6 GND
A7 GND
A8 GND
A9 GND
A10 GND
A11 GND
A12 GND
A13 GND
A14 GND
A15 GND
A16 GND
A17 GND
A18 GND
B2 GND
B3 GND
B4 GND
B5 GND
B6 GND
B7 GND
B8 GND
B9 GND
B10 GND
B11 GND
B12 GND
B13 GND
B14 GND
B15 GND
B16 GND
B17 GND
B18 GND
D2 GND
D3 GND
D4 GND
D5 GND
D6 GND
D7 GND
D8 GND
D9 GND
D10 GND
D11 GND
D12 GND
D13 GND
D14 GND
D15 GND
D16 GND
D17 GND
D18 GND
CNZ12
E2 GND
E3 GND
E4 GND
E5 GND
E6 GND
E7 GND
E8 GND
E9 GND
E10 GND
E11 GND
E12 GND
E13 GND
E14 GND
E15 GND
E16 GND
E17 GND
F2 GND
F3 GND
F4 GND
F5 GND
F6 GND
F7 GND
F8 GND
F9 GND
F10 GND
F11 GND
F12 GND
F13 GND
F14 GND
F15 GND
F16 GND
F17 GND
F18 GND
CNZ12
A19 GND
A20 GND
A21 GND
A22 GND
A23 GND
A24 GND
A25 GND
A26 GND
A27 GND
A28 GND
A29 GND
A30 GND
A31 GND
A32 GND
A33 GND
A34 GND
A35 GND
A36 GND
A37 GND
A38 GND
A39 GND
A40 GND
A41 GND
B20 GND
B21 GND
B23 GND
B24 GND
B26 GND
B27 GND
B29 GND
B30 GND
B32 GND
B33 GND
B35 GND
B36 GND
B38 GND
B39 GND
B41 GND
C2 GND
C3 GND
C4 GND
C5 GND
C6 GND
C7 GND
C8 GND
C9 GND
C10 GND
C11 GND
C12 GND
C13 GND
C14 GND
C15 GND
C16 GND
C17 GND
C18 GND
C19 GND
C20 GND
C21 GND
C22 GND
C23 GND
C24 GND
C25 GND
CNZ12
C26 GND
C27 GND
C28 GND
C29 GND
C30 GND
C31 GND
C32 GND
C33 GND
C34 GND
C35 GND
C36 GND
C37 GND
C38 GND
C39 GND
C40 GND
C41 GND
D19 GND
D20 GND
D21 GND
D22 GND
D23 GND
D24 GND
D25 GND
D26 GND
D27 GND
D28 GND
D29 GND
D30 GND
D31 GND
D32 GND
D33 GND
D34 GND
D35 GND
D36 GND
D37 GND
D38 GND
D39 GND
D40 GND
D41 GND
E19 GND
E20 GND
E22 GND
E23 GND
E25 GND
E26 GND
E28 GND
E29 GND
E31 GND
E32 GND
E34 GND
E35 GND
E37 GND
E38 GND
E40 GND
E41 GND
F19 GND
F20 GND
F21 GND
F22 GND
F23 GND
F24 GND
F25 GND
F26 GND
F27 GND
CNZ12
E18 AUX-6
AUX-6
CNZ12
B19 AUX-5
AUX-5
CNZ12
E21 AUX-4
AUX-4
CNZ12
B22 AUX-3
AUX-3
CNZ12
E24 AUX-2
AUX-2
CNZ12
B25 AUX-1
AUX-1
CNZ12
E27 CLN
CLN
CNZ12
B31 PST
PST
CNZ12
E33 PP-PGM4
PP-PGM4
CNZ12
B34 PP-PGM3
PP-PGM3
CNZ12
E36 PP-PGM2
PP-PGM2
CNZ12
B37 PP-PGM1
PP-PGM1
CNZ12
E39 ED PVW
ED PVW
CNZ12
F28 GND
F29 GND
F30 GND
F31 GND
F32 GND
F33 GND
F34 GND
F35 GND
F36 GND
F37 GND
F38 GND
F39 GND
F40 GND
F41 GND
CNZ12
E1 RL (+)
F1 RL (-)
RL (+)
RL (-)
CNZ12
E30 N.C.
B28 N.C.
R1
75
R2
75

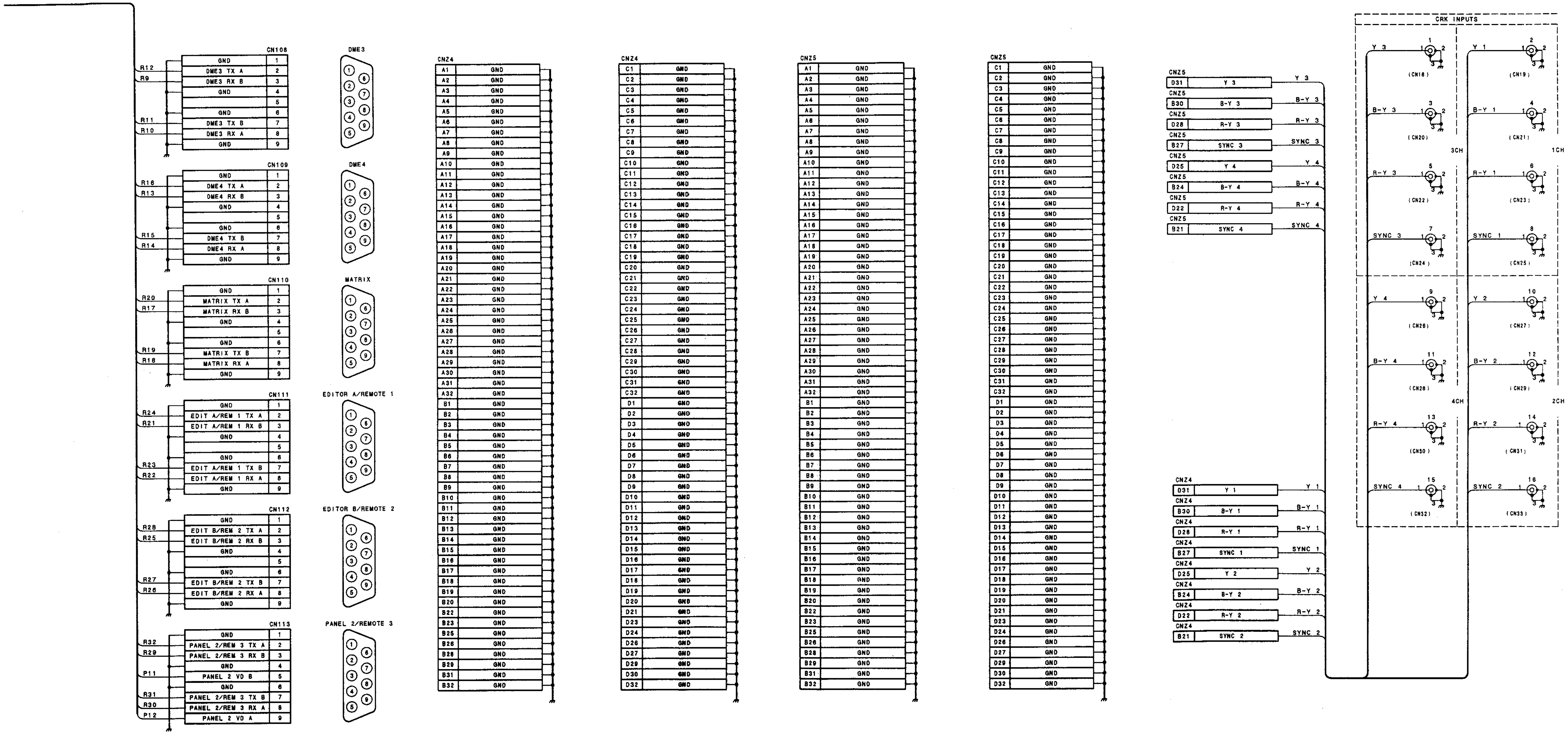

CNZ13
GND
AUXBUS OUTPUTS
ME-1 OUTPUT
ME-2 OUTPUT
ME-3 OUTPUT
PGM OUTPUT
CLEAN OUTPUT
PST OUTPUT
EDITPVW OUTPUT
DIRECT INPUT
E18 AUX-12
B19 AUX-11
E21 AUX-10
B22 AUX-9
E24 AUX-8
B25 AUX-7
E27 ME1-PGM2
B28 ME1-PGM1
E30 ME2-PGM2
B31 ME2-PGM1
E36 ME3-PGM2
B37 ME3-PGM1
E39 AUX-13
E33 N.C.
B34 N.C.
R3 75
R4 75
AUX-7 (CN201)
AUX-1 CN202
AUX-8 (CN203)
AUX-2 (CN204)
AUX-9 (CN205)
AUX-3 (CN206)
AUX-10 (CN207)
AUX-4 (CN208)
AUX-11 (CN209)
AUX-5 (CN210)
AUX-12 (CN211)
AUX-6 (CN212)
AUX-13 (CN213)
ME1-PGM2 (CN1)
ME1-PGM1 (CN214)
ME2-PGM2 (CN2)
ME2-PGM1 (CN215)
ME3-PGM2 (CN3)
ME3-PGM1 (CN216)
PP-PGM3 (CN219)
PP-PGM1 (CN217)
PP-PGM4 (CN220)
PP-PGM2 (CN218)
CLN (CN224)
PST (CN221)
(CN223)
(CN222)
RY1 ADB229
RY2 ADB229
ED PVW
RL (+)
RL (-)

Connector Board
CN-1145 (2/2)
DVS-7000
BOARD NO. 1-658-400-11/12
LOT NO. 507-
B-¥SJX050-CN1145

Connector Board **CN-1146** **CN-1146** Connector Board

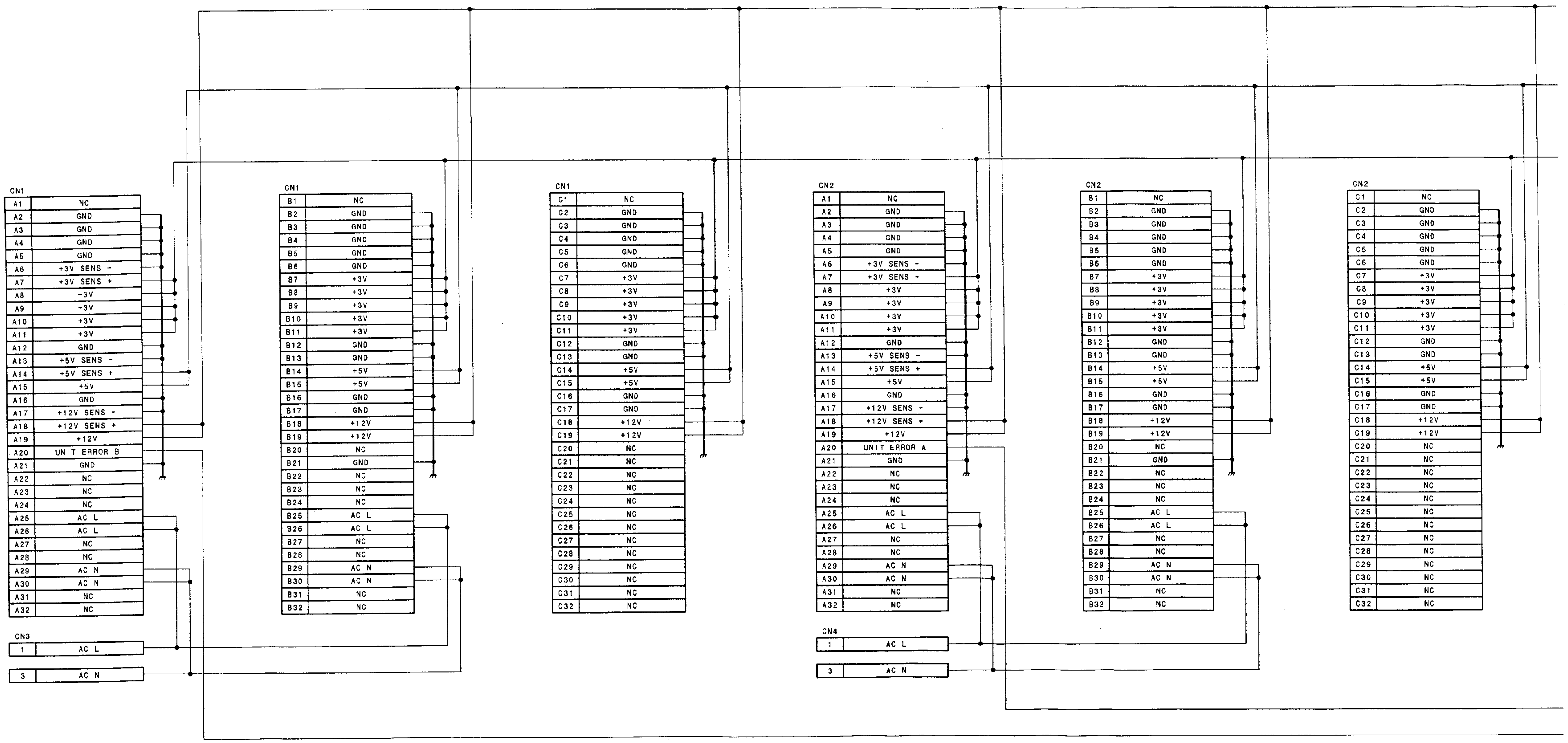
DVS-7000 (SY) : S/N 10001 and Higher

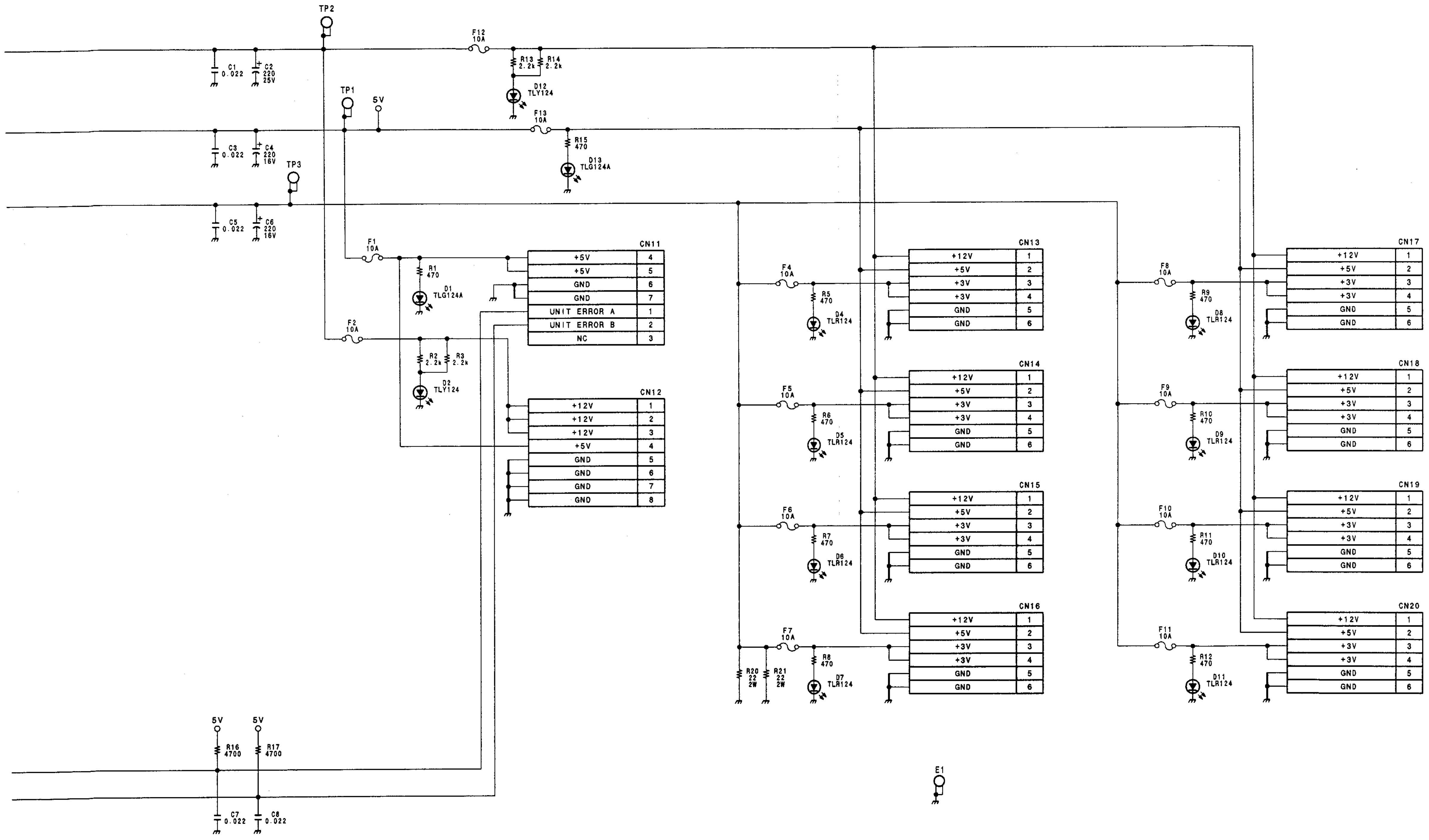

CNZ3
CNZ3
CNZ1
CNZ1
CNZ2
CN100
CN101
CN114
GPI
EXTERNAL
NET WORK
REF INPUT
(CN12)
(CN13)
REF OUTPUT
(CN14)
MONITER OUTPUTS
Y/G
(CN15)
B-Y
(CN16)
R-Y
(CN17)
CN102
CN103
CN104
CN105
CN106
CN107
PANEL 1
DME1
TALLY
TERMINAL
DME2
DSK


CN108
DME3
R12
R9
R11
R10
GND
DME3 TX A
DME3 RX B
DME3 TX B
DME3 RX A
CN109
DME4
R16
R13
R15
R14
DME4 TX A
DME4 RX B
DME4 TX B
DME4 RX A
CN110
MATRIX
R20
R17
R19
R18
MATRIX TX A
MATRIX RX B
MATRIX TX B
MATRIX RX A
CN111
EDITOR A/REMOTE 1
R24
R21
R23
R22
EDIT A/REM 1 TX A
EDIT A/REM 1 RX B
EDIT A/REM 1 TX B
EDIT A/REM 1 RX A
CN112
EDITOR B/REMOTE 2
R28
R25
R27
R26
EDIT B/REM 2 TX A
EDIT B/REM 2 RX B
EDIT B/REM 2 TX B
EDIT B/REM 2 RX A
CN113
PANEL 2/REMOTE 3
R32
R29
P11
R31
R30
P12
PANEL 2/REM 3 TX A
PANEL 2/REM 3 RX B
PANEL 2 VD B
PANEL 2/REM 3 TX B
PANEL 2/REM 3 RX A
PANEL 2 VD A
CNZ4
A1–A32, B1–B32 GND
CNZ4
C1–C32, D1–D32 GND
CNZ5
A1–A32, B1–B32 GND
CNZ5
C1–C32, D1–D32 GND
CNZ5 D31 Y 3
CNZ5 B30 B-Y 3
CNZ5 D28 R-Y 3
CNZ5 B27 SYNC 3
CNZ5 D25 Y 4
CNZ5 B24 B-Y 4
CNZ5 D22 R-Y 4
CNZ5 B21 SYNC 4
CNZ4 D31 Y 1
CNZ4 B30 B-Y 1
CNZ4 D28 R-Y 1
CNZ4 B27 SYNC 1
CNZ4 D25 Y 2
CNZ4 B24 B-Y 2
CNZ4 D22 R-Y 2
CNZ4 B21 SYNC 2
CRK INPUTS
Y 3 (CN18)
Y 1 (CN19)
B-Y 3 (CN20)
B-Y 1 (CN21)
R-Y 3 (CN22)
R-Y 1 (CN23)
SYNC 3 (CN24)
SYNC 1 (CN25)
3CH
1CH
Y 4 (CN26)
Y 2 (CN27)
B-Y 4 (CN28)
B-Y 2 (CN29)
R-Y 4 (CN30)
R-Y 2 (CN31)
SYNC 4 (CN32)
SYNC 2 (CN33)
4CH
2CH
1
2
3
4
5

Connector Board
CN-1146
DVS-7000
BOARD NO. 1-658-400-11/12
LOT NO. 507-
B-¥SJX050-CN1146

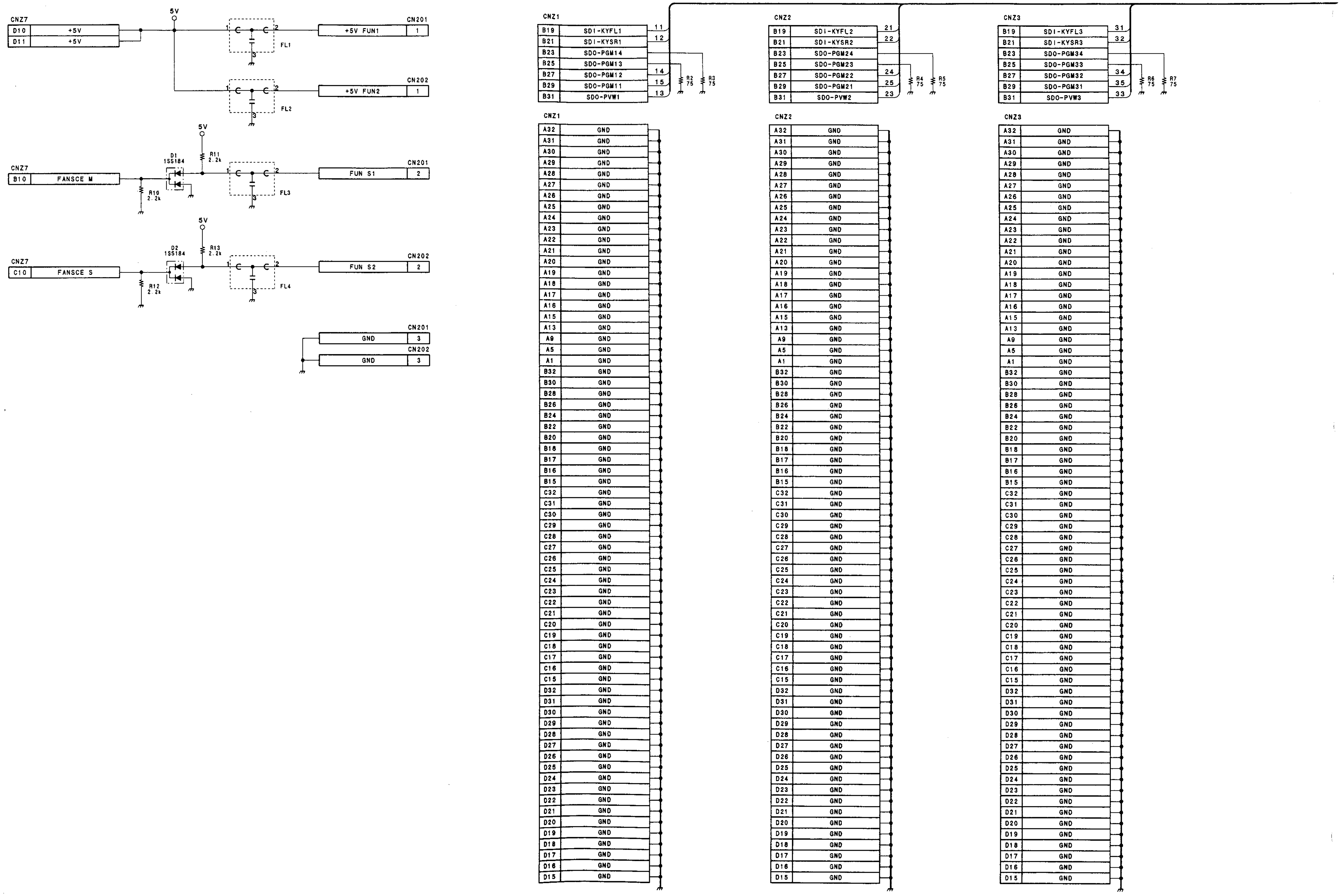
BKDS-7011/7012/7021/7022/7023 (SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R (SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR (SY) : S/N 10001 and Higher

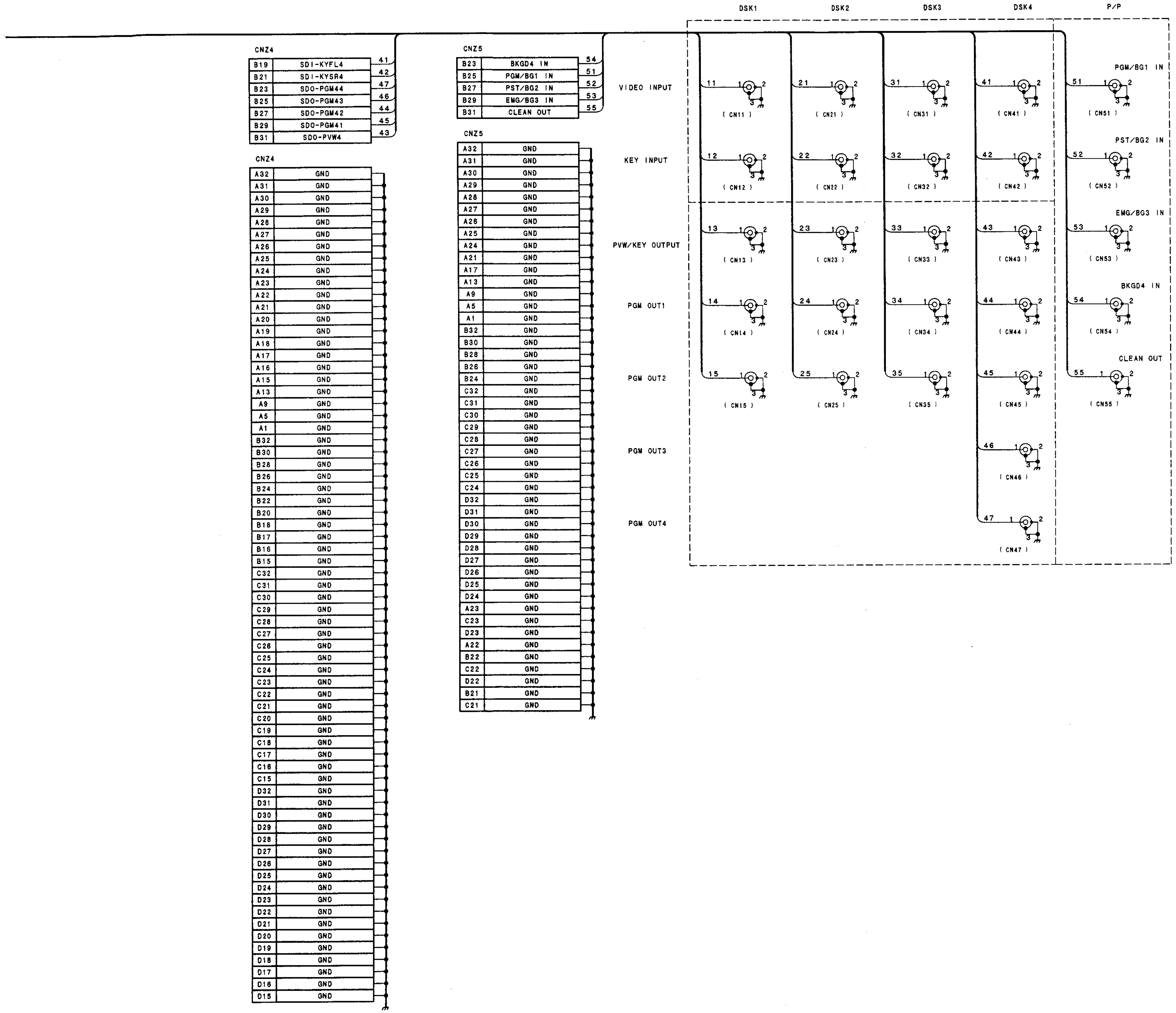

1
2
3
4
5
CN1
A1 NC
A2 GND
A3 GND
A4 GND
A5 GND
A6 +3V SENS -
A7 +3V SENS +
A8 +3V
A9 +3V
A10 +3V
A11 +3V
A12 GND
A13 +5V SENS -
A14 +5V SENS +
A15 +5V
A16 GND
A17 +12V SENS -
A18 +12V SENS +
A19 +12V
A20 UNIT ERROR B
A21 GND
A22 NC
A23 NC
A24 NC
A25 AC L
A26 AC L
A27 NC
A28 NC
A29 AC N
A30 AC N
A31 NC
A32 NC
CN3
1 AC L
3 AC N
CN1
B1 NC
B2 GND
B3 GND
B4 GND
B5 GND
B6 GND
B7 +3V
B8 +3V
B9 +3V
B10 +3V
B11 +3V
B12 GND
B13 GND
B14 +5V
B15 +5V
B16 GND
B17 GND
B18 +12V
B19 +12V
B20 NC
B21 GND
B22 NC
B23 NC
B24 NC
B25 AC L
B26 AC L
B27 NC
B28 NC
B29 AC N
B30 AC N
B31 NC
B32 NC
CN1
C1 NC
C2 GND
C3 GND
C4 GND
C5 GND
C6 GND
C7 +3V
C8 +3V
C9 +3V
C10 +3V
C11 +3V
C12 GND
C13 GND
C14 +5V
C15 +5V
C16 GND
C17 GND
C18 +12V
C19 +12V
C20 NC
C21 NC
C22 NC
C23 NC
C24 NC
C25 NC
C26 NC
C27 NC
C28 NC
C29 NC
C30 NC
C31 NC
C32 NC
CN2
A1 NC
A2 GND
A3 GND
A4 GND
A5 GND
A6 +3V SENS -
A7 +3V SENS +
A8 +3V
A9 +3V
A10 +3V
A11 +3V
A12 GND
A13 +5V SENS -
A14 +5V SENS +
A15 +5V
A16 GND
A17 +12V SENS -
A18 +12V SENS +
A19 +12V
A20 UNIT ERROR A
A21 GND
A22 NC
A23 NC
A24 NC
A25 AC L
A26 AC L
A27 NC
A28 NC
A29 AC N
A30 AC N
A31 NC
A32 NC
CN4
1 AC L
3 AC N
CN2
B1 NC
B2 GND
B3 GND
B4 GND
B5 GND
B6 GND
B7 +3V
B8 +3V
B9 +3V
B10 +3V
B11 +3V
B12 GND
B13 GND
B14 +5V
B15 +5V
B16 GND
B17 GND
B18 +12V
B19 +12V
B20 NC
B21 GND
B22 NC
B23 NC
B24 NC
B25 AC L
B26 AC L
B27 NC
B28 NC
B29 AC N
B30 AC N
B31 NC
B32 NC
CN2
C1 NC
C2 GND
C3 GND
C4 GND
C5 GND
C6 GND
C7 +3V
C8 +3V
C9 +3V
C10 +3V
C11 +3V
C12 GND
C13 GND
C14 +5V
C15 +5V
C16 GND
C17 GND
C18 +12V
C19 +12V
C20 NC
C21 NC
C22 NC
C23 NC
C24 NC
C25 NC
C26 NC
C27 NC
C28 NC
C29 NC
C30 NC
C31 NC
C32 NC
A
B
C
D
E
F
G
H


TP2
TP1
5V
TP3
C1 0.022
C2 220 25V
C3 0.022
C4 220 16V
C5 0.022
C6 220 16V
F12 10A
R13 2.2k
R14 2.2k
D12 TLY124
F13 10A
R15 470
D13 TLG124A
F1 10A
R1 470
D1 TLG124A
F2 10A
R2 2.2k
R3 2.2k
D2 TLY124
CN11
+5V 4
+5V 5
GND 6
GND 7
UNIT ERROR A 1
UNIT ERROR B 2
NC 3
CN12
+12V 1
+12V 2
+12V 3
+5V 4
GND 5
GND 6
GND 7
GND 8
F4 10A
R5 470
D4 TLR124
F5 10A
R6 470
D5 TLR124
F6 10A
R7 470
D6 TLR124
F7 10A
R8 470
D7 TLR124
R20 22 2W
R21 22 2W
CN13
CN14
CN15
CN16
+12V 1
+5V 2
+3V 3
+3V 4
GND 5
GND 6
F8 10A
R9 470
D8 TLR124
F9 10A
R10 470
D9 TLR124
F10 10A
R11 470
D10 TLR124
F11 10A
R12 470
D11 TLR124
CN17
CN18
CN19
CN20
5V
5V
R16 4700
R17 4700
C7 0.022
C8 0.022
E1
1
2
3
4
5
I
J
K
L
M
N
O
P

Connector Board
CN-1148
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-292-11/12
BKDS-7011/7021/7022 : LOT NO. 505-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CN1148

DMK-7000 (SY) : S/N 10001 and Higher

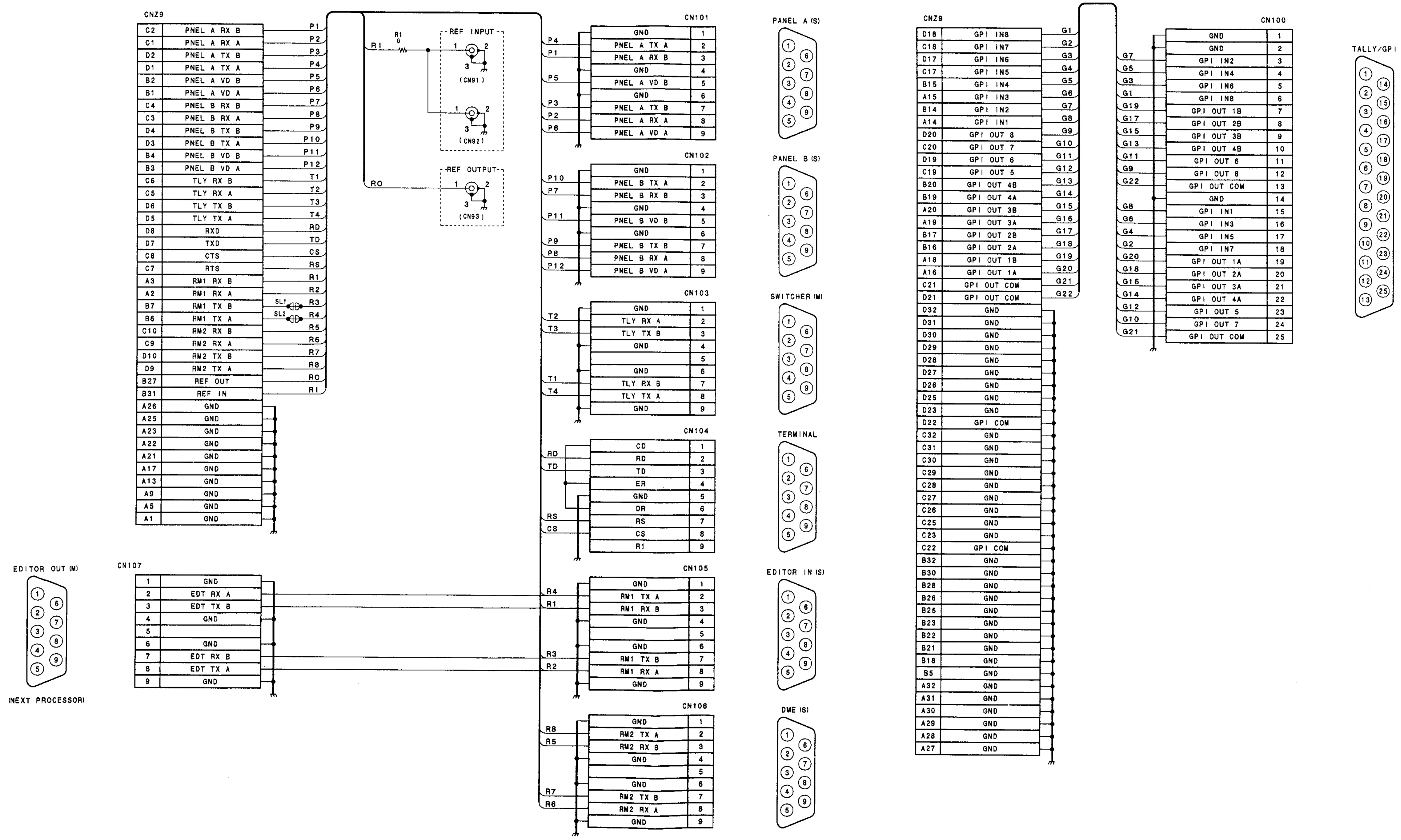

CNZ7
D10 +5V
D11 +5V
5V
FL1
FL2
CN201 +5V FUN1 1
CN202 +5V FUN2 1
D1 1SS184
R11 2.2k
R10 2.2k
CNZ7 B10 FANSCE M
FL3
CN201 FUN S1 2
D2 1SS184
R13 2.2k
R12 2.2k
CNZ7 C10 FANSCE S
FL4
CN202 FUN S2 2
CN201 GND 3
CN202 GND 3
CNZ1
B19 SDI-KYFL1 11
B21 SDI-KYSR1 12
B23 SDO-PGM14
B25 SDO-PGM13 14
B27 SDO-PGM12 15
B29 SDO-PGM11 13
B31 SDO-PVW1
R2 75
R3 75
CNZ2
B19 SDI-KYFL2 21
B21 SDI-KYSR2 22
B23 SDO-PGM24
B25 SDO-PGM23 24
B27 SDO-PGM22 25
B29 SDO-PGM21 23
B31 SDO-PVW2
R4 75
R5 75
CNZ3
B19 SDI-KYFL3 31
B21 SDI-KYSR3 32
B23 SDO-PGM34
B25 SDO-PGM33 34
B27 SDO-PGM32 35
B29 SDO-PGM31 33
B31 SDO-PVW3
R6 75
R7 75
CNZ1
CNZ2
CNZ3
A32 GND
A31 GND
A30 GND
A1 GND
B32 GND
C32 GND
D32 GND
D15 GND


CNZ4
B19 SDI-KYFL4 41
B21 SDI-KYSR4 42
B23 SDO-PGM44 47
B25 SDO-PGM43 46
B27 SDO-PGM42 44
B29 SDO-PGM41 45
B31 SDO-PVW4 43
CNZ4
A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A13 A9 A5 A1 B32 B30 B28 B26 B24 B22 B20 B18 B17 B16 B15 C32 C31 C30 C29 C28 C27 C26 C25 C24 C23 C22 C21 C20 C19 C18 C17 C16 C15 D32 D31 D30 D29 D28 D27 D26 D25 D24 D23 D22 D21 D20 D19 D18 D17 D16 D15 GND
CNZ5
B23 BKGD4 IN 54
B25 PGM/BG1 IN 51
B27 PST/BG2 IN 52
B29 EMG/BG3 IN 53
B31 CLEAN OUT 55
CNZ5
A32 A31 A30 A29 A28 A27 A26 A25 A24 A21 A17 A13 A9 A5 A1 B32 B30 B28 B26 B24 C32 C31 C30 C29 C28 C27 C26 C25 C24 D32 D31 D30 D29 D28 D27 D26 D25 D24 A23 C23 D23 A22 B22 C22 D22 B21 C21 GND
VIDEO INPUT
KEY INPUT
PVW/KEY OUTPUT
PGM OUT1
PGM OUT2
PGM OUT3
PGM OUT4
DSK1
DSK2
DSK3
DSK4
P/P
11 (CN11) 12 (CN12) 13 (CN13) 14 (CN14) 15 (CN15)
21 (CN21) 22 (CN22) 23 (CN23) 24 (CN24) 25 (CN25)
31 (CN31) 32 (CN32) 33 (CN33) 34 (CN34) 35 (CN35)
41 (CN41) 42 (CN42) 43 (CN43) 44 (CN44) 45 (CN45) 46 (CN46) 47 (CN47)
PGM/BG1 IN 51 (CN51)
PST/BG2 IN 52 (CN52)
EMG/BG3 IN 53 (CN53)
BKGD4 IN 54 (CN54)
CLEAN OUT 55 (CN55)
1 2 3

Connector Board
CN-1171 (1/2)
DMK-7000
BOARD NO. 1-658-591-11
LOT NO. 506-
B-¥SJX054-CN1171

CN-1171 (2/2) Connector Board

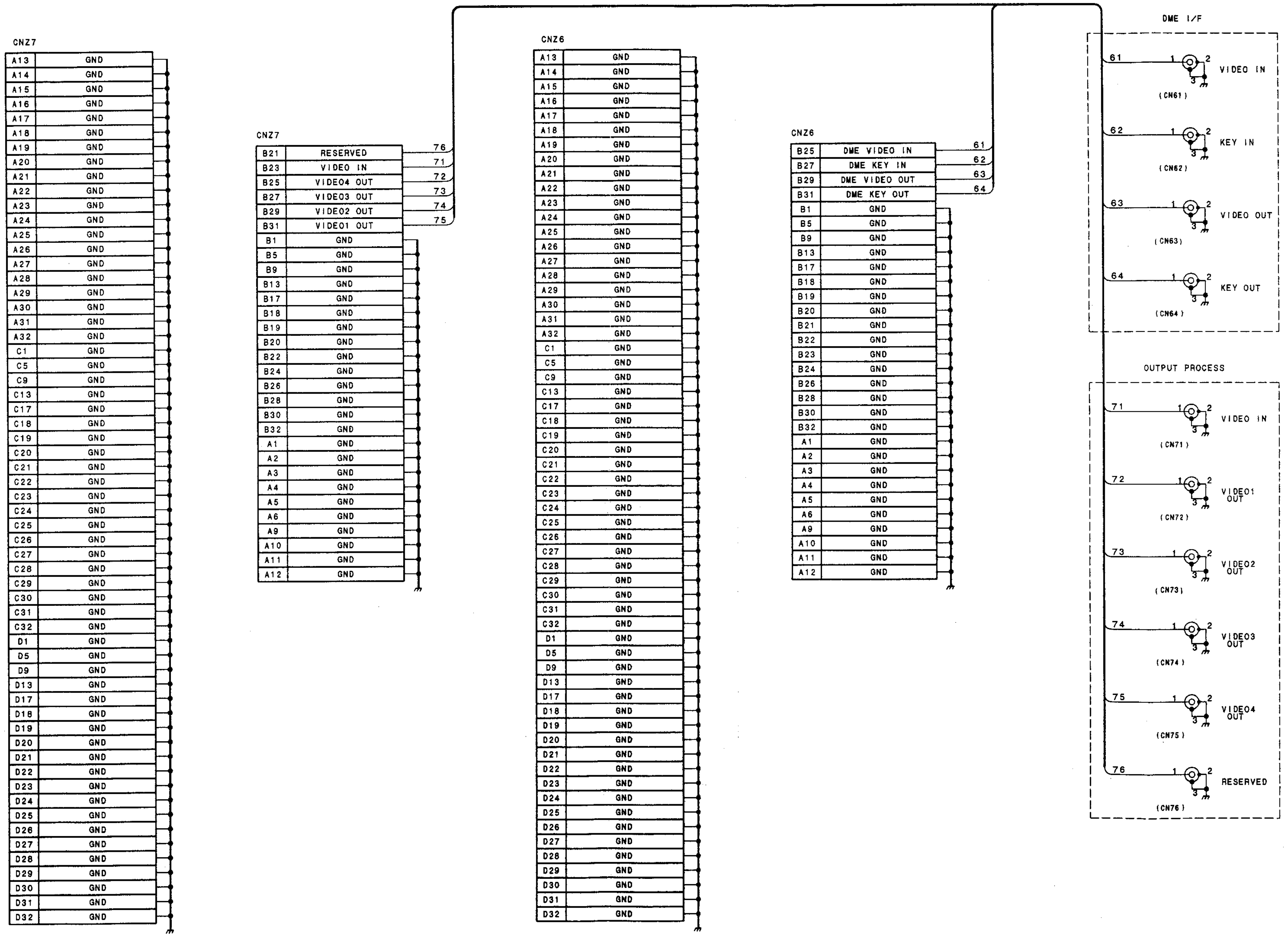
DMK-7000 (SY) : S/N 10001 and Higher


CNZ9
CN101
CN102
CN103
CN104
CN105
CN106
CN107
CN100
CNZ9
REF INPUT
(CN91)
(CN92)
REF OUTPUT
(CN93)
R1 0
SL1
SL2
PANEL A (S)
PANEL B (S)
SWITCHER (M)
TERMINAL
EDITOR IN (S)
DME (S)
EDITOR OUT (M)
(NEXT PROCESSOR)
TALLY/GPI
PNEL A RX B
PNEL A RX A
PNEL A TX B
PNEL A TX A
PNEL A VD B
PNEL A VD A
PNEL B RX B
PNEL B RX A
PNEL B TX B
PNEL B TX A
PNEL B VD B
PNEL B VD A
TLY RX B
TLY RX A
TLY TX B
TLY TX A
RXD
TXD
CTS
RTS
RM1 RX B
RM1 RX A
RM1 TX B
RM1 TX A
RM2 RX B
RM2 RX A
RM2 TX B
RM2 TX A
REF OUT
REF IN
GND
EDT RX A
EDT TX B
EDT RX B
EDT TX A
CD
RD
TD
ER
DR
RS
CS
RI
GPI IN1
GPI IN2
GPI IN3
GPI IN4
GPI IN5
GPI IN6
GPI IN7
GPI IN8
GPI OUT 1A
GPI OUT 1B
GPI OUT 2A
GPI OUT 2B
GPI OUT 3A
GPI OUT 3B
GPI OUT 4A
GPI OUT 4B
GPI OUT 5
GPI OUT 6
GPI OUT 7
GPI OUT 8
GPI OUT COM
GPI COM

1
2
3
4
5
A
B
C
D
E
F
G
H

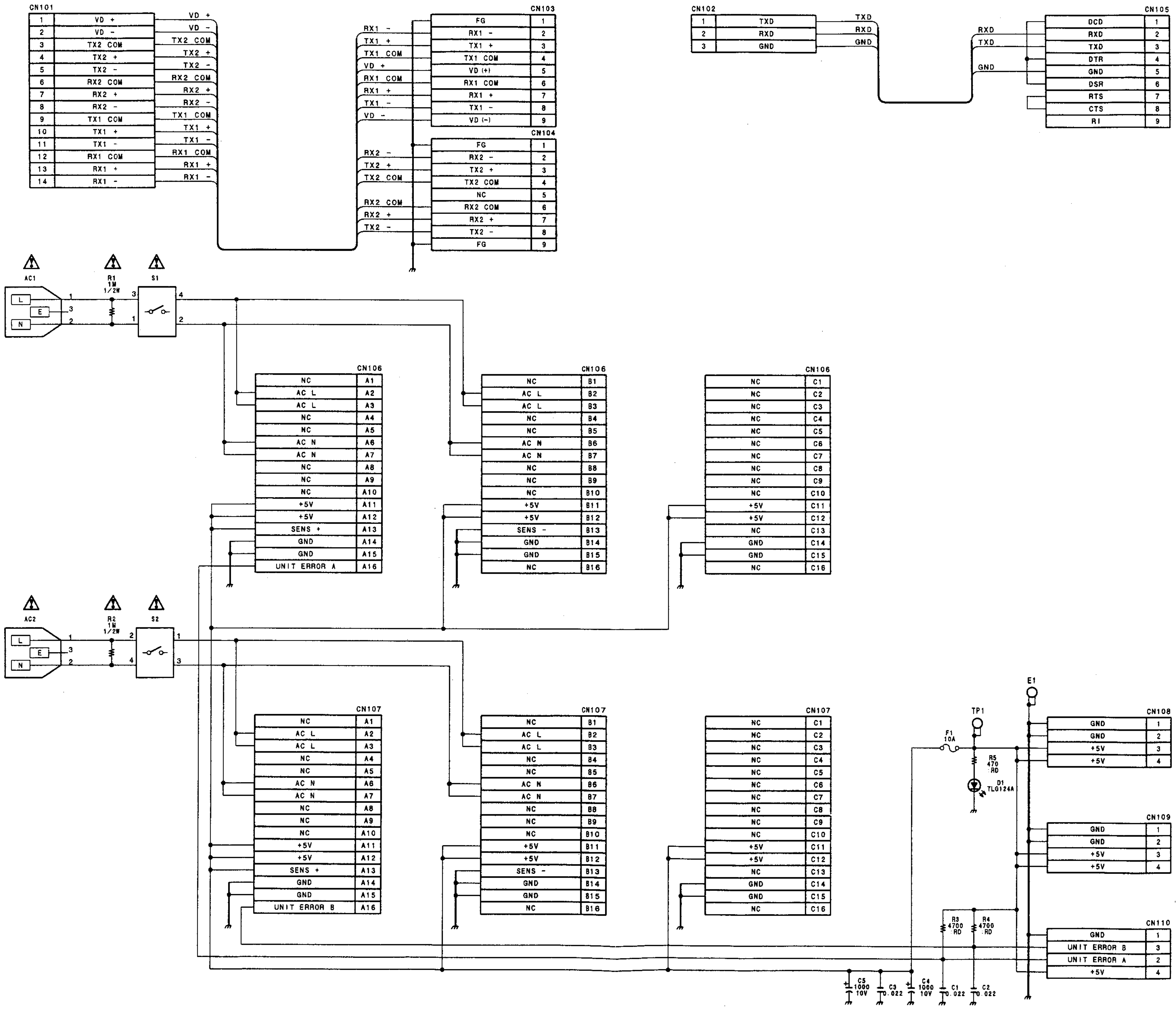
3-86

Connector Board CN-1171 (2/2) CN-1171 (2/2) Connector Board


CNZ7
A13 GND
A14 GND
A15 GND
A16 GND
A17 GND
A18 GND
A19 GND
A20 GND
A21 GND
A22 GND
A23 GND
A24 GND
A25 GND
A26 GND
A27 GND
A28 GND
A29 GND
A30 GND
A31 GND
A32 GND
C1 GND
C5 GND
C9 GND
C13 GND
C17 GND
C18 GND
C19 GND
C20 GND
C21 GND
C22 GND
C23 GND
C24 GND
C25 GND
C26 GND
C27 GND
C28 GND
C29 GND
C30 GND
C31 GND
C32 GND
D1 GND
D5 GND
D9 GND
D13 GND
D17 GND
D18 GND
D19 GND
D20 GND
D21 GND
D22 GND
D23 GND
D24 GND
D25 GND
D26 GND
D27 GND
D28 GND
D29 GND
D30 GND
D31 GND
D32 GND
CNZ7
B21 RESERVED 76
B23 VIDEO IN 71
B25 VIDEO4 OUT 72
B27 VIDEO3 OUT 73
B29 VIDEO2 OUT 74
B31 VIDEO1 OUT 75
B1 GND
B5 GND
B9 GND
B13 GND
B17 GND
B18 GND
B19 GND
B20 GND
B22 GND
B24 GND
B26 GND
B28 GND
B30 GND
B32 GND
A1 GND
A2 GND
A3 GND
A4 GND
A5 GND
A6 GND
A9 GND
A10 GND
A11 GND
A12 GND
CNZ6
A13 GND
A14 GND
A15 GND
A16 GND
A17 GND
A18 GND
A19 GND
A20 GND
A21 GND
A22 GND
A23 GND
A24 GND
A25 GND
A26 GND
A27 GND
A28 GND
A29 GND
A30 GND
A31 GND
A32 GND
C1 GND
C5 GND
C9 GND
C13 GND
C17 GND
C18 GND
C19 GND
C20 GND
C21 GND
C22 GND
C23 GND
C24 GND
C25 GND
C26 GND
C27 GND
C28 GND
C29 GND
C30 GND
C31 GND
C32 GND
D1 GND
D5 GND
D9 GND
D13 GND
D17 GND
D18 GND
D19 GND
D20 GND
D21 GND
D22 GND
D23 GND
D24 GND
D25 GND
D26 GND
D27 GND
D28 GND
D29 GND
D30 GND
D31 GND
D32 GND
CNZ6
B25 DME VIDEO IN 61
B27 DME KEY IN 62
B29 DME VIDEO OUT 63
B31 DME KEY OUT 64
B1 GND
B5 GND
B9 GND
B13 GND
B17 GND
B18 GND
B19 GND
B20 GND
B21 GND
B22 GND
B23 GND
B24 GND
B26 GND
B28 GND
B30 GND
B32 GND
A1 GND
A2 GND
A3 GND
A4 GND
A5 GND
A6 GND
A9 GND
A10 GND
A11 GND
A12 GND
DME I/F
61 1 2 3 VIDEO IN (CN61)
62 1 2 3 KEY IN (CN62)
63 1 2 3 VIDEO OUT (CN63)
64 1 2 3 KEY OUT (CN64)
OUTPUT PROCESS
71 1 2 3 VIDEO IN (CN71)
72 1 2 3 VIDEO1 OUT (CN72)
73 1 2 3 VIDEO2 OUT (CN73)
74 1 2 3 VIDEO3 OUT (CN74)
75 1 2 3 VIDEO4 OUT (CN75)
76 1 2 3 RESERVED (CN76)

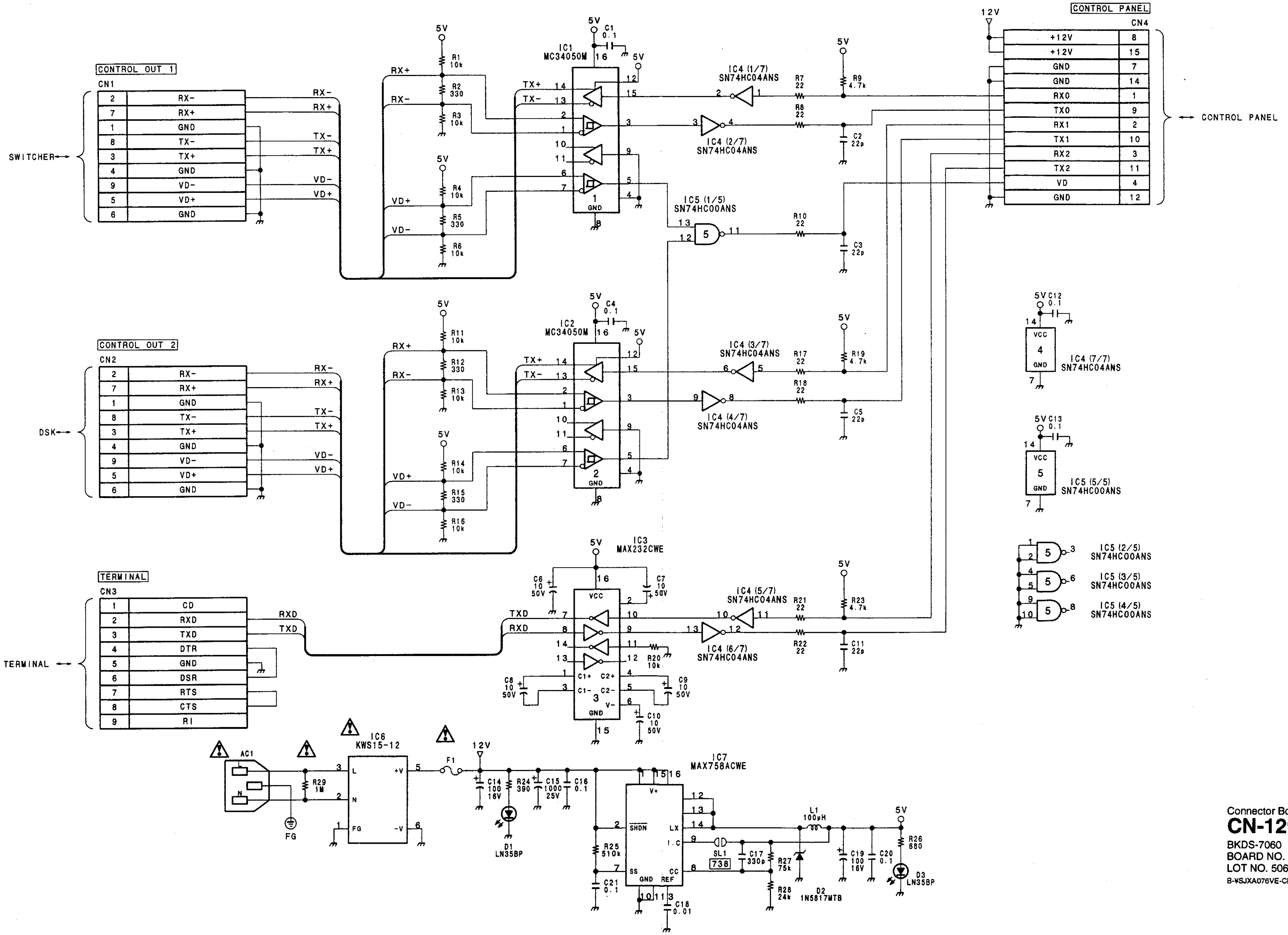
Connector Board
CN-1171 (2/2)
DMK-7000
BOARD NO. 1-658-591-11
LOT NO. 506-
B-¥SJX054-CN1171

BKDS-M1010 (SY) : S/N 10001 and Higher


1
2
3
4
5
CN101
VD +
VD -
TX2 COM
TX2 +
TX2 -
RX2 COM
RX2 +
RX2 -
TX1 COM
TX1 +
TX1 -
RX1 COM
RX1 +
RX1 -
CN103
FG
RX1 -
TX1 +
TX1 COM
VD (+)
RX1 COM
RX1 +
TX1 -
VD (-)
CN104
FG
RX2 -
TX2 +
TX2 COM
NC
RX2 COM
RX2 +
TX2 -
FG
CN102
TXD
RXD
GND
CN105
DCD
RXD
TXD
DTR
GND
DSR
RTS
CTS
RI
AC1
R1 1M 1/2W
S1
AC2
R2 1M 1/2W
S2
L
E
N
CN106
NC
AC L
AC N
+5V
SENS +
SENS -
GND
UNIT ERROR A
CN107
UNIT ERROR B
E1
TP1
F1 10A
R5 470 RD
D1 TLG124A
CN108
CN109
CN110
R3 4700 RD
R4 4700 RD
C5 1000 10V
C3 0.022
C4 1000 10V
C1 0.022
C2 0.022

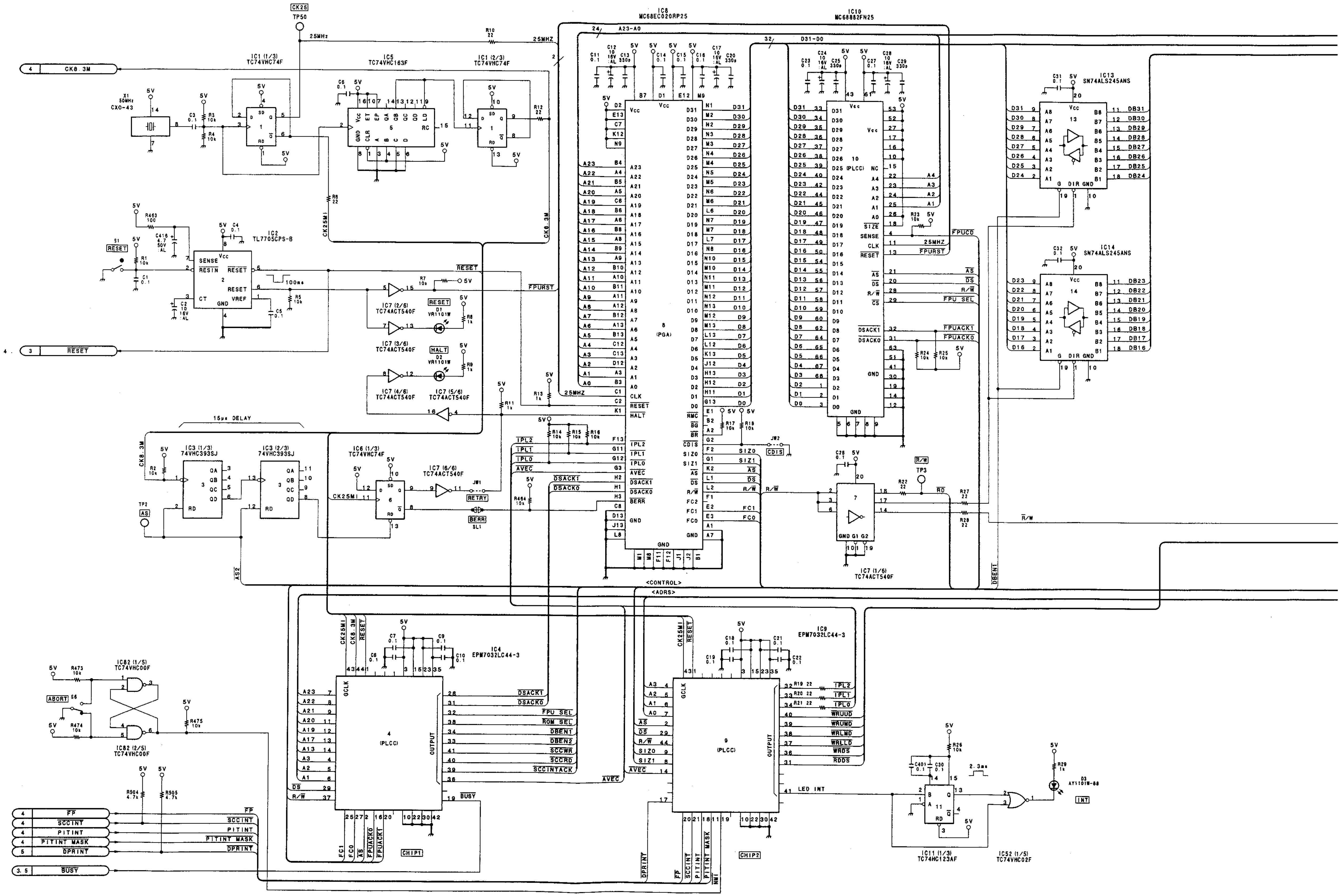
Connector Board
CN-1197
BKDS-M1010
BOARD NO. 1-658-382-11
LOT NO. 506-
B-¥SJXA079-CN1197

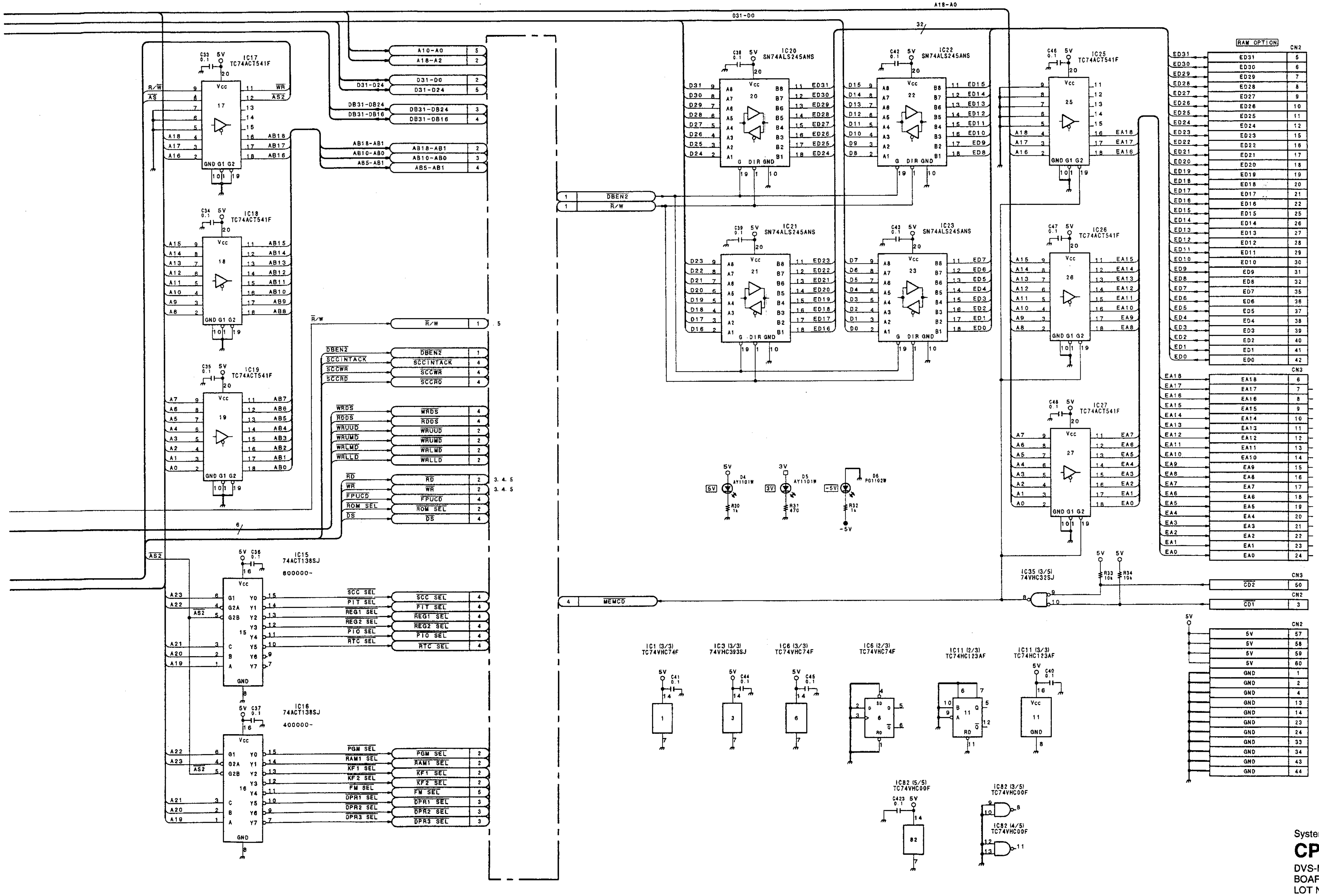
BKDS-7060 (SY) : S/N 10001 and Higher


CONTROL OUT 1
CN1
SWITCHER
2 RX-
7 RX+
1 GND
8 TX-
3 TX+
4 GND
9 VD-
5 VD+
6 GND
CONTROL OUT 2
CN2
DSK
TERMINAL
CN3
1 CD
2 RXD
3 TXD
4 DTR
5 GND
6 DSR
7 RTS
8 CTS
9 RI
IC1 MC34050M
IC2 MC34050M
IC3 MAX232CWE
IC4 (1/7) SN74HC04ANS
IC4 (2/7) SN74HC04ANS
IC4 (3/7) SN74HC04ANS
IC4 (4/7) SN74HC04ANS
IC4 (5/7) SN74HC04ANS
IC4 (6/7) SN74HC04ANS
IC4 (7/7) SN74HC04ANS
IC5 (1/5) SN74HC00ANS
IC5 (2/5) SN74HC00ANS
IC5 (3/5) SN74HC00ANS
IC5 (4/5) SN74HC00ANS
IC5 (5/5) SN74HC00ANS
IC6 KWS15-12
IC7 MAX758ACWE
CONTROL PANEL
CN4
+12V 8
+12V 15
GND 7
GND 14
RX0 1
TX0 9
RX1 2
TX1 10
RX2 3
TX2 11
VD 4
GND 12
CONTROL PANEL
AC1
FG
R29 1M
F1
12V
5V
C14 100 16V
R24 390
C15 1000 25V
C16 0.1
D1 LN35BP
R25 510k
C21 0.1
SL1 738
C17 330p
R27 75k
R28 24k
C18 0.01
L1 100μH
D2 1N5817MTB
C19 100 16V
C20 0.1
R26 680
D3 LN35BP

Connector Board
CN-1295
BKDS-7060
BOARD NO. 1-658-630-11
LOT NO. 506-
B-¥SJXA076VE-CN1295

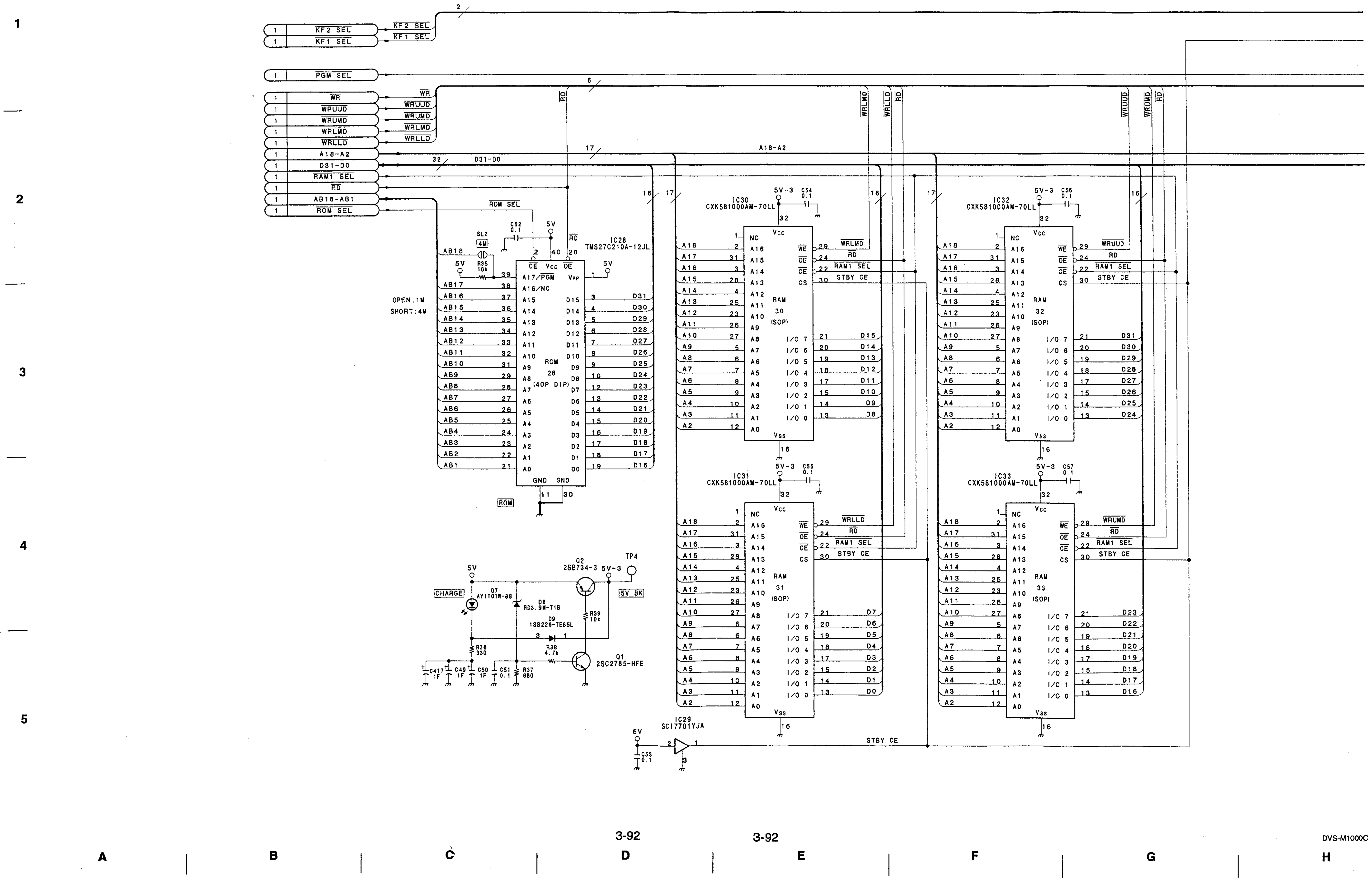
DVS-M1000C (SY) : S/N 10001 and Higher

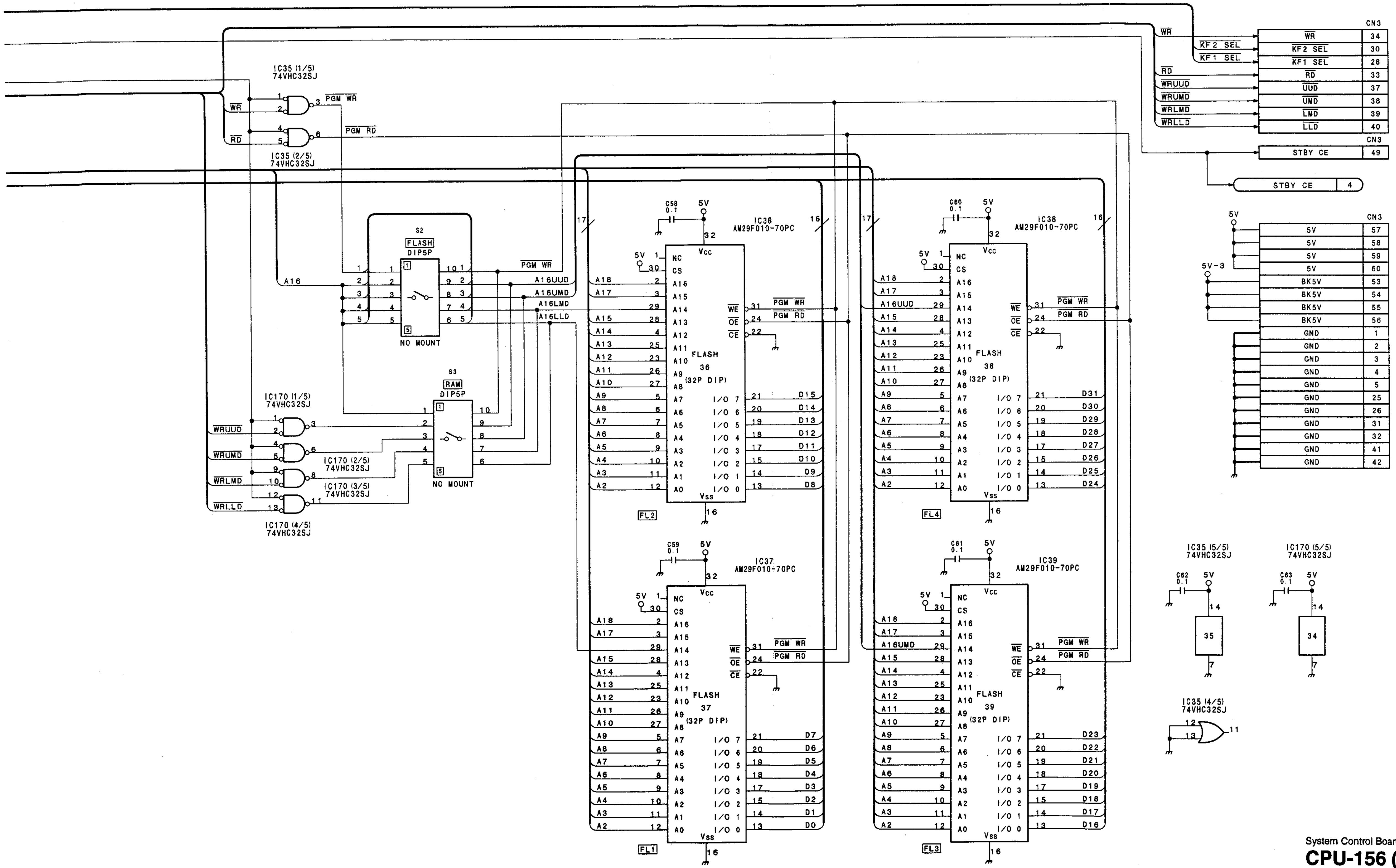

CK25
TP50
25MHz
CK8 3M
X1 50MHz CXO-43
IC1 (1/3) TC74VHC74F
IC5 TC74VHC163F
IC1 (2/3) TC74VHC74F
IC2 TL7705CPS-B
RESET
S1
100ms
IC7 (2/6) TC74ACT540F
IC7 (3/6) TC74ACT540F
IC7 (4/6) TC74ACT540F
IC7 (5/6) TC74ACT540F
D1 VR1101W
D2 VR1101W
HALT
FPURST
15μs DELAY
IC3 (1/3) 74VHC393SJ
IC3 (2/3) 74VHC393SJ
TP2
AS
IC6 (1/3) TC74VHC74F
IC7 (6/6) TC74ACT540F
JW1
RETRY
BERR
SL1
CK25MI
IC8 MC68EC020RP25
A23-A0
8 (PGA)
IC10 MC68882FN25
D31-D00
10 (PLCC)
FPUCS
FPUACK1
FPUACK0
FPU SEL
IC13 SN74ALS245ANS
IC14 SN74ALS245ANS
DB31 DB30 DB29 DB28 DB27 DB26 DB25 DB24
DB23 DB22 DB21 DB20 DB19 DB18 DB17 DB16
JW2
CDIS
TP3
R/W
IC7 (1/6) TC74ACT540F
DBENT
<CONTROL>
<ADRS>
IC4 EPM7032LC44-3
4 (PLCC)
CHIP1
DSACK1
DSACK0
ROM SEL
DBEN2
SCCWR
SCCRD
SCCINTACK
AVEC
BUSY
IC9 EPM7032LC44-3
9 (PLCC)
CHIP2
IPL2 IPL1 IPL0
WRUUD WRUMD WRLMD WRLLD
WRDS RDDS
LED INT
IC82 (1/5) TC74VHC00F
IC82 (2/5) TC74VHC00F
ABORT S6
FP
SCCINT
PITINT
PITINT MASK
DPRINT
NMI
IC11 (1/3) TC74HC123AF
IC52 (1/5) TC74VHC02F
2.3ms
D3 AY1101W-88
INT


IC17 TC74ACT541F
IC18 TC74ACT541F
IC19 TC74ACT541F
IC15 74ACT138SJ 600000-
IC16 74ACT138SJ 400000-
IC20 SN74ALS245ANS
IC21 SN74ALS245ANS
IC22 SN74ALS245ANS
IC23 SN74ALS245ANS
IC25 TC74ACT541F
IC26 TC74ACT541F
IC27 TC74ACT541F
IC35 (3/5) 74VHC32SJ
IC1 (3/3) TC74VHC74F
IC3 (3/3) 74VHC393SJ
IC6 (3/3) TC74VHC74F
IC6 (2/3) TC74VHC74F
IC11 (2/3) TC74HC123AF
IC11 (3/3) TC74HC123AF
IC82 (5/5) TC74VHC00F
IC82 (3/5) TC74VHC00F
IC82 (4/5) TC74VHC00F
D4 AY1101W
D5 AY1101W
D6 PG1102W
RAM OPTION
CN2
CN3
A18-A0
D31-D0
DBEN2
R/W
MEMCO
SCC SEL
PIT SEL
REG1 SEL
REG2 SEL
PIO SEL
RTC SEL
PGM SEL
RAM1 SEL
KF1 SEL
KF2 SEL
FM SEL
OPR1 SEL
OPR2 SEL
OPR3 SEL
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-156 (1/7)
DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-¥SJX003-CPU156

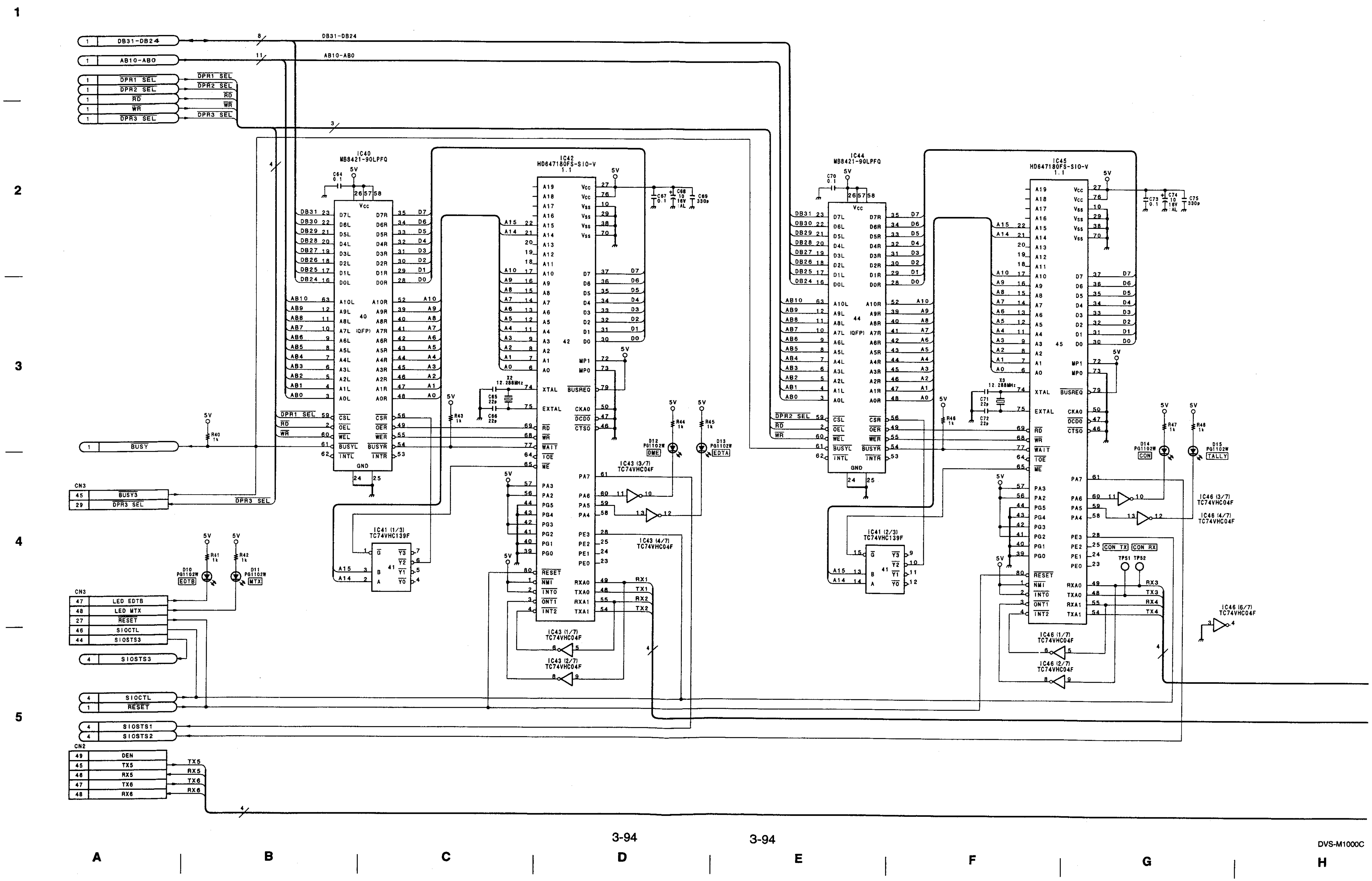
DVS-M1000C (SY) : S/N 10001 and Higher

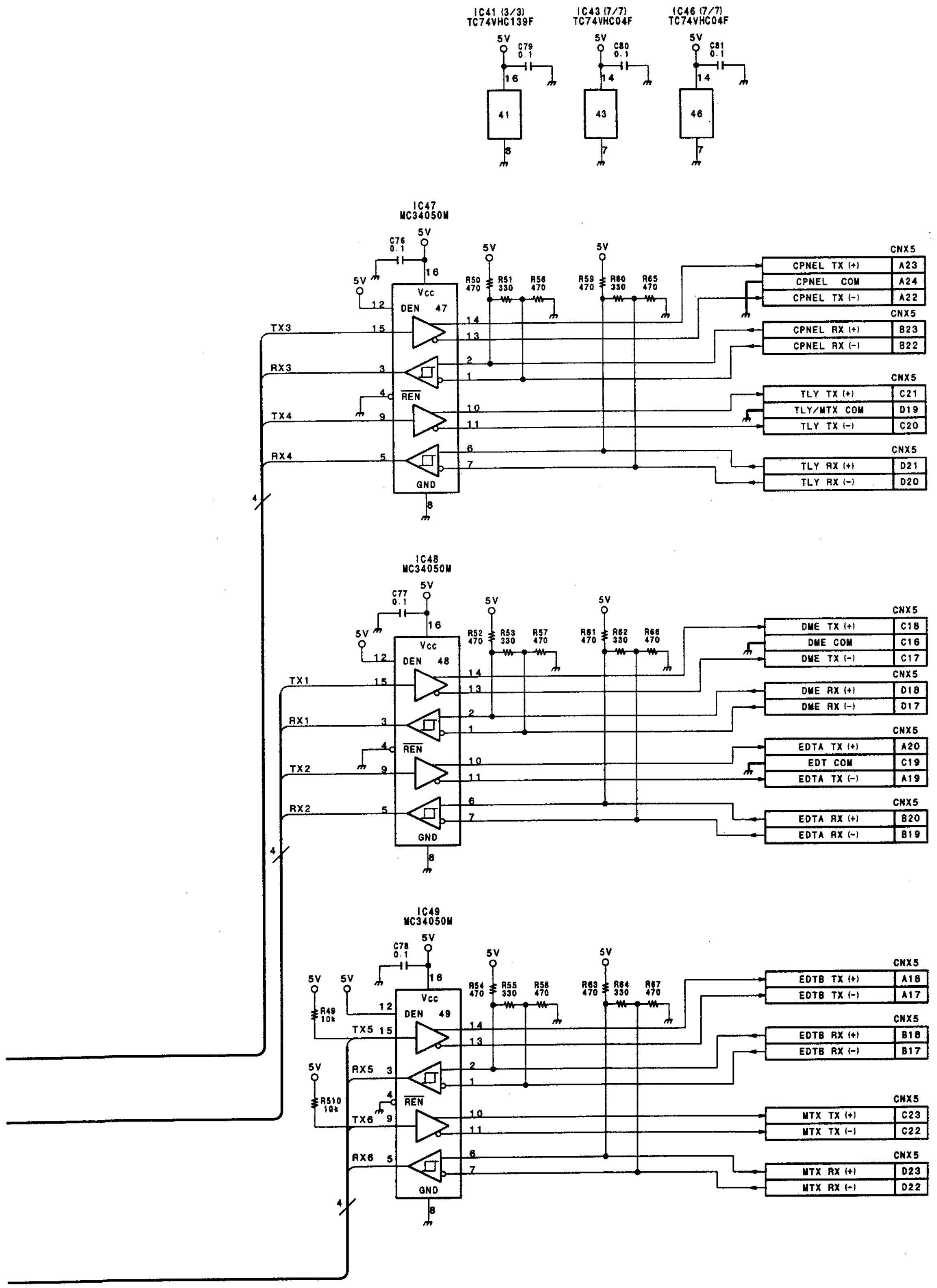

1
2
3
4
5
KF2 SEL
KF1 SEL
PGM SEL
WR
WRUUD
WRUMD
WRLMD
WRLLD
A18-A2
D31-D0
RAM1 SEL
RD
AB18-AB1
ROM SEL
IC28
TMS27C210A-12JL
ROM
28
(40P DIP)
SL2
4M
R35
10k
OPEN:1M
SHORT:4M
C52
0.1
5V
ROM
IC30
CXK581000AM-70LL
RAM
30
(SOP)
C54
0.1
5V-3
IC31
CXK581000AM-70LL
RAM
31
(SOP)
C55
0.1
IC32
CXK581000AM-70LL
RAM
32
(SOP)
C56
0.1
IC33
CXK581000AM-70LL
RAM
33
(SOP)
C57
0.1
STBY CE
CHARGE
D7
AY1101W-88
D8
RD3.9M-T1B
D9
1SS226-TE85L
Q2
2SB734-3
TP4
5V BK
R39
10k
R36
330
R38
4.7k
Q1
2SC2785-HFE
C417
1F
C49
1F
C50
1F
C51
0.1
R37
680
IC29
SC17701YJA
C53
0.1
A
B
C
D
E
F
G
H


IC35 (1/5) 74VHC32SJ
IC35 (2/5) 74VHC32SJ
PGM WR
PGM RD
WR
RD
A16
S2 FLASH DIP5P
NO MOUNT
S3 RAM DIP5P
NO MOUNT
A16UUD
A16UMD
A16LMD
A16LLD
IC170 (1/5) 74VHC32SJ
IC170 (2/5) 74VHC32SJ
IC170 (3/5) 74VHC32SJ
IC170 (4/5) 74VHC32SJ
WRUUD
WRUMD
WRLMD
WRLLD
IC36 AM29F010-70PC
FLASH 36 (32P DIP)
IC37 AM29F010-70PC
FLASH 37 (32P DIP)
IC38 AM29F010-70PC
FLASH 38 (32P DIP)
IC39 AM29F010-70PC
FLASH 39 (32P DIP)
C58 0.1
C59 0.1
C60 0.1
C61 0.1
5V
Vcc
Vss
NC
CS
WE
OE
CE
D15 D14 D13 D12 D11 D10 D9 D8
D7 D6 D5 D4 D3 D2 D1 D0
D31 D30 D29 D28 D27 D26 D25 D24
D23 D22 D21 D20 D19 D18 D17 D16
FL1 FL2 FL3 FL4
CN3
KF2 SEL
KF1 SEL
UUD
UMD
LMD
LLD
STBY CE
5V-3
BK5V
GND
IC35 (5/5) 74VHC32SJ
IC170 (5/5) 74VHC32SJ
C62 0.1
C63 0.1
IC35 (4/5) 74VHC32SJ

System Control Board
CPU-156 (2/7)
DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-¥SJX003-CPU156

DVS-M1000C (SY) : S/N 10001 and Higher


DB31-DB24
AB10-AB0
DPR1 SEL
DPR2 SEL
RD
WR
DPR3 SEL
BUSY
CN3
BUSY3
LED EDTB
LED MTX
RESET
SIOCTL
SIOSTS3
SIOSTS1
SIOSTS2
CN2
DEN
TX5
RX5
TX6
RX6
IC40 MB8421-90LPFQ
IC42 HD647180FS-SIO-V 1.1
IC44 MB8421-90LPFQ
IC45 HD647180FS-SIO-V 1.1
IC41 (1/3) TC74VHC139F
IC41 (2/3) TC74VHC139F
IC43 (3/7) TC74VHC04F
IC43 (4/7) TC74VHC04F
IC43 (1/7) TC74VHC04F
IC43 (2/7) TC74VHC04F
IC46 (3/7) TC74VHC04F
IC46 (4/7) TC74VHC04F
IC46 (1/7) TC74VHC04F
IC46 (2/7) TC74VHC04F
IC46 (6/7) TC74VHC04F
X2 12.288MHz
X3 12.288MHz
D10 PG1102W EDTB
D11 PG1102W MTX
D12 PG1102W DME
D13 PG1102W EDTA
D14 PG1102W CON
D15 PG1102W TALLY
CON TX
CON RX
TP51
TP52
RX1
TX1
RX2
TX2
RX3
TX3
RX4
TX4
5V
1
2
3
4
5
A
B
C
D
E
F
G
H

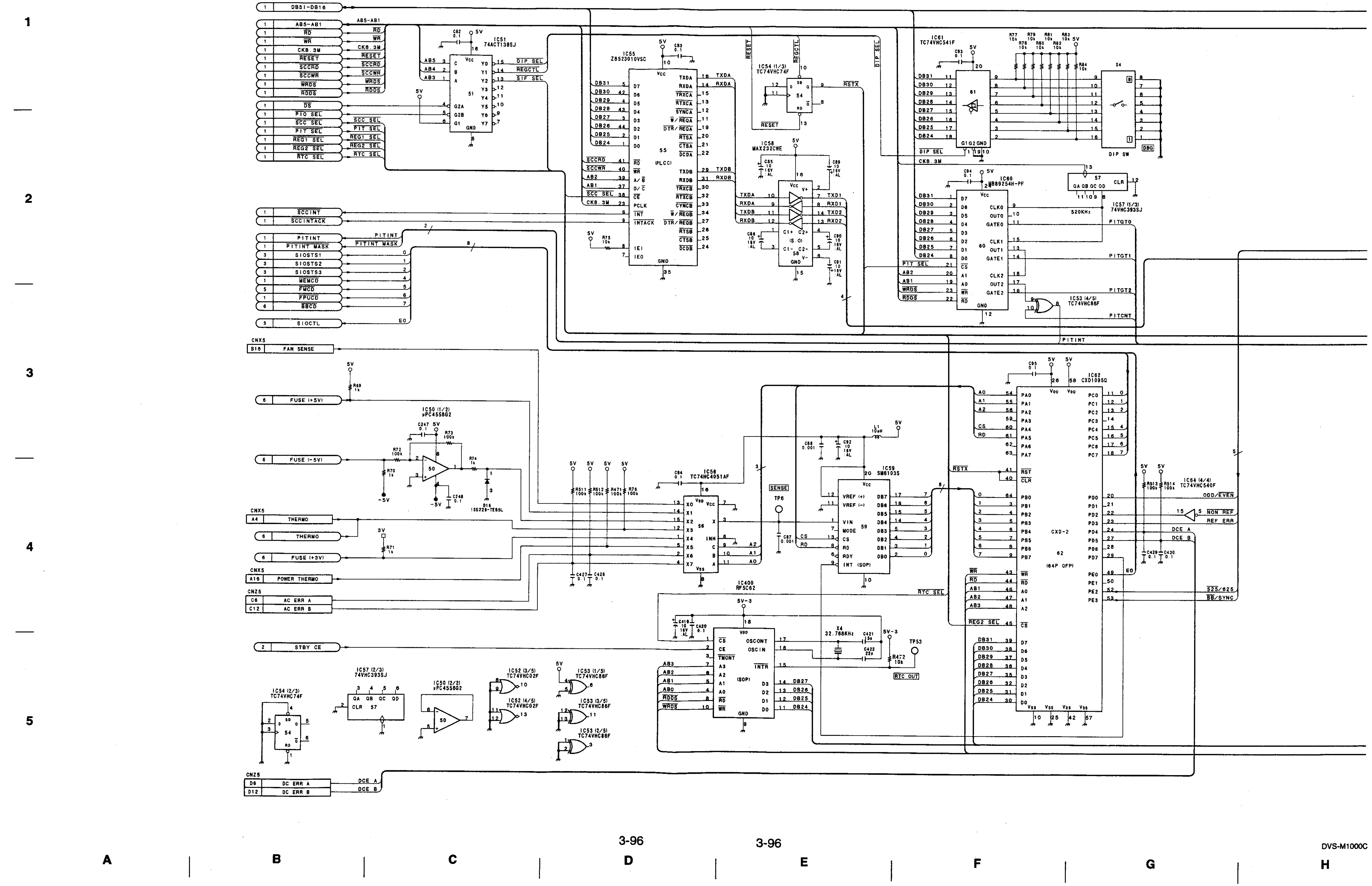

IC41 (3/3) TC74VHC139F
IC43 (7/7) TC74VHC04F
IC46 (7/7) TC74VHC04F
5V
C79 0.1
C80 0.1
C81 0.1
41
43
46
IC47 MC34050M
C76 0.1
R50 470
R51 330
R56 470
R59 470
R60 330
R65 470
Vcc
DEN 47
REN
GND
TX3
RX3
TX4
RX4
CNX5
CPNEL TX (+) A23
CPNEL COM A24
CPNEL TX (-) A22
CPNEL RX (+) B23
CPNEL RX (-) B22
TLY TX (+) C21
TLY/MTX COM D19
TLY TX (-) C20
TLY RX (+) D21
TLY RX (-) D20
IC48 MC34050M
C77 0.1
R52 470
R53 330
R57 470
R61 470
R62 330
R66 470
DEN 48
TX1
RX1
TX2
RX2
DME TX (+) C18
DME COM C16
DME TX (-) C17
DME RX (+) D18
DME RX (-) D17
EDTA TX (+) A20
EDT COM C19
EDTA TX (-) A19
EDTA RX (+) B20
EDTA RX (-) B19
IC49 MC34050M
C78 0.1
R49 10k
R510 10k
R54 470
R55 330
R58 470
R63 470
R64 330
R67 470
DEN 49
TX5
RX5
TX6
RX6
EDTB TX (+) A18
EDTB TX (-) A17
EDTB RX (+) B18
EDTB RX (-) B17
MTX TX (+) C23
MTX TX (-) C22
MTX RX (+) D23
MTX RX (-) D22
4

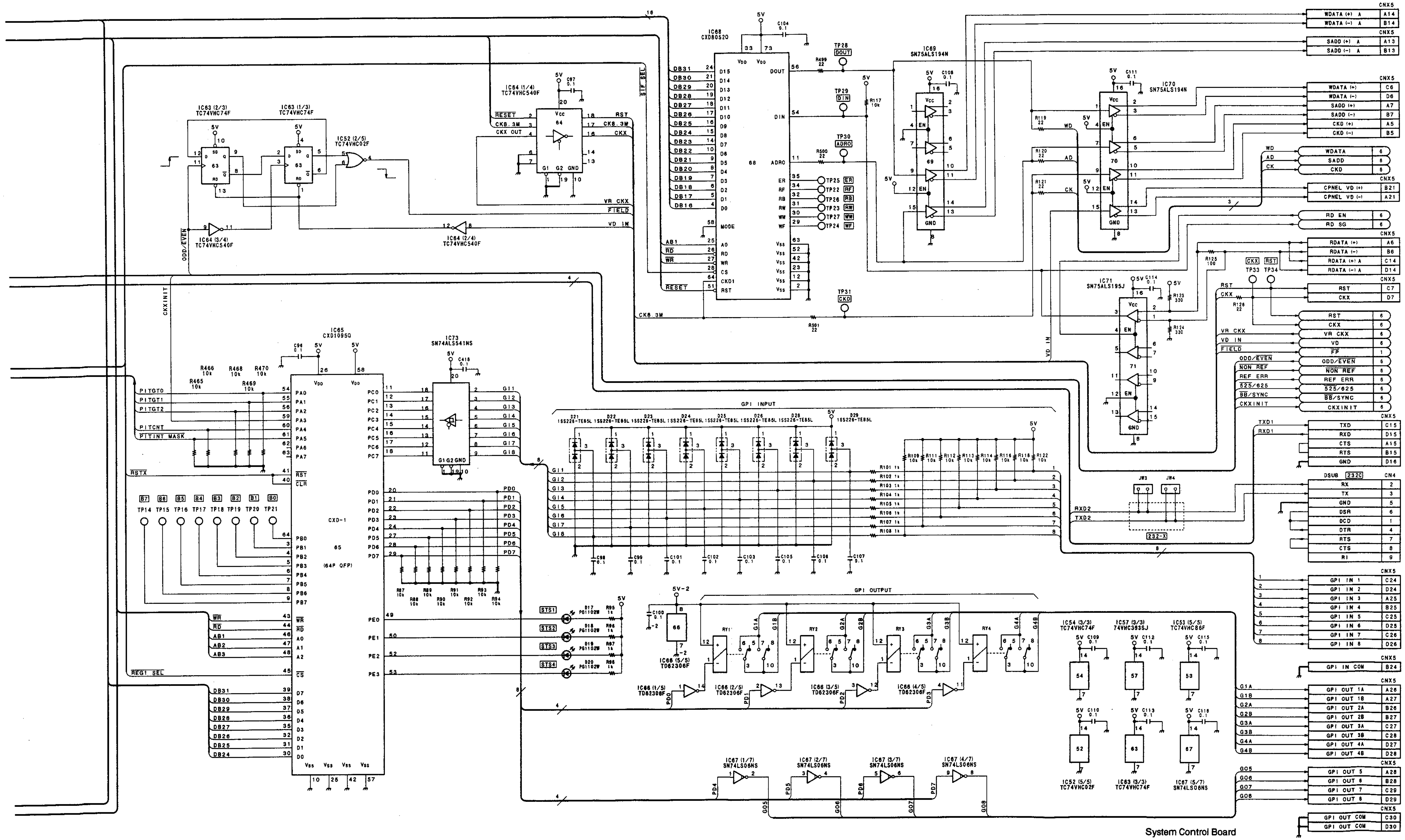
System Control Board

CPU-156 (3/7)

DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-VSJX003-CPU156

DVS-M1000C (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
DB31-DB16
AB5-AB1
RD
WR
CK8.3M
RESET
SCCRD
SCCWR
WRDS
RDDS
DS
PIO SEL
SCC SEL
PIT SEL
REG1 SEL
REG2 SEL
RTC SEL
SCCINT
SCCINTACK
PITINT
PITINT MASK
SIOSTS1
SIOSTS2
SIOSTS3
MEMCD
FMCD
FPUCD
BBCD
SIOCTL
CNX5
FAN SENSE
FUSE (+5V)
FUSE (-5V)
THERMO
FUSE (+3V)
POWER THERMO
CNZ5
AC ERR A
AC ERR B
STBY CE
DC ERR A
DC ERR B
DCE A
DCE B
IC51 74ACT138SJ
DIP SEL
REGCTL
SIF SEL
IC55 Z8523010VSC
(PLCC)
TXDA
RXDA
TXDB
RXDB
IC54 (1/3) TC74VHC74F
IC58 MAX232CWE
RSTX
IC61 TC74VHC541F
DIP SW
DBG
IC60 MB89254H-PF
IC57 (1/3) 74VHC393SJ
520KHz
PITGT0
PITGT1
PITGT2
PITCNT
IC53 (4/5) TC74VHC86F
IC50 (1/2) μPC4558G2
D16 1SS226-TE85L
IC56 TC74HC4051AF
SENSE
TP6
IC59 SM6103S
IC62 CXD1095Q
CXD-2
(64P QFP)
IC64 (4/4) TC74VHC540F
ODD/EVEN
NON REF
REF ERR
525/625
BB/SYNC
IC400 RF5C62
X4 32.768KHz
TP53
RTC OUT
IC57 (2/3) 74VHC393SJ
IC50 (2/2) μPC4558G2
IC52 (3/5) TC74VHC02F
IC52 (4/5) TC74VHC02F
IC53 (1/5) TC74VHC86F
IC53 (3/5) TC74VHC86F
IC53 (2/5) TC74VHC86F
IC54 (2/3) TC74VHC74F


IC68 CXD8052Q
IC69 SN75ALS194N
IC70 SN75ALS194N
IC71 SN75ALS195J
IC64 (1/4) TC74VHC540F
IC63 (2/3) TC74VHC74F
IC63 (1/3) TC74VHC74F
IC52 (2/5) TC74VHC02F
IC64 (3/4) TC74VHC540F
IC64 (2/4) TC74VHC540F
IC65 CXD1095Q
CXD-1
(64P QFP)
IC73 SN74ALS541NS
GPI INPUT
GPI OUTPUT
IC66 (1/5) TD62306F
IC66 (2/5) TD62306F
IC66 (3/5) TD62306F
IC66 (4/5) TD62306F
IC66 (5/5) TD62306F
RY1
RY2
RY3
RY4
IC54 (3/3) TC74VHC74F
IC57 (3/3) 74VHC393SJ
IC53 (5/5) TC74VHC86F
IC52 (5/5) TC74VHC02F
IC63 (3/3) TC74VHC74F
IC67 (5/7) SN74LS06NS
IC67 (1/7) SN74LS06NS
IC67 (2/7) SN74LS06NS
IC67 (3/7) SN74LS06NS
IC67 (4/7) SN74LS06NS
TP28 DOUT
TP29 DIN
TP30 ADRO
TP31 CKD
TP33 CKX
TP34 RST
TP25 ER
TP22 RF
TP26 RB
TP23 RW
TP27 WW
TP24 WF
TP14 B7
TP15 B6
TP16 B5
TP17 B4
TP18 B3
TP19 B2
TP20 B1
TP21 B0
STS1
STS2
STS3
STS4
JW3
JW4
232-X
DSUB 232C
CN4
CNX5
WDATA (+) A
WDATA (-) A
SADD (+) A
SADD (-) A
WDATA (+)
WDATA (-)
SADD (+)
SADD (-)
CKD (+)
CKD (-)
WDATA
SADD
CKD
CPNEL VD (+)
CPNEL VD (-)
RD EN
RD SG
RDATA (+)
RDATA (-)
RDATA (+) A
RDATA (-) A
RST
CKX
VR CKX
VD
FP
ODD/EVEN
NON REF
REF ERR
525/625
BB/SYNC
CKXINIT
TXD
RXD
CTS
RTS
GND
RX
TX
DSR
DCD
DTR
RI
GPI IN 1
GPI IN 2
GPI IN 3
GPI IN 4
GPI IN 5
GPI IN 6
GPI IN 7
GPI IN 8
GPI IN COM
GPI OUT 1A
GPI OUT 1B
GPI OUT 2A
GPI OUT 2B
GPI OUT 3A
GPI OUT 3B
GPI OUT 4A
GPI OUT 4B
GPI OUT 5
GPI OUT 6
GPI OUT 7
GPI OUT 8
GPI OUT COM
A14
B14
A13
B13
C6
D6
A7
B7
A5
B5
B21
A21
A6
B6
C14
D14
C7
D7
C15
D15
A15
B15
D16
C24
D24
A25
B25
C25
D25
C26
D26
B24
A26
A27
B26
B27
C27
C28
D27
D28
A28
B28
C29
D29
C30
D30
RESET
CK8.3M
CKX OUT
VR CKX
FIELD
VD IN
RSTX
REG1 SEL
PITGT0
PITGT1
PITGT2
PITCNT
PITINT MASK
CKXINIT
STF SEL
DB31
DB30
DB29
DB28
DB27
DB26
DB25
DB24
DB23
DB22
DB21
DB20
DB19
DB18
DB17
DB16
AB1
AB2
AB3
RD
WR
TXD1
RXD1
RXD2
TXD2
GI1
GI2
GI3
GI4
GI5
GI6
GI7
GI8
G1A
G1B
G2A
G2B
G3A
G3B
G4A
G4B
GO5
GO6
GO7
GO8
5V
5V-2
1SS226-TE85L
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-156 (4/7)
DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-¥SJX003-CPU156

DVS-M1000C (SY) : S/N 10001 and Higher

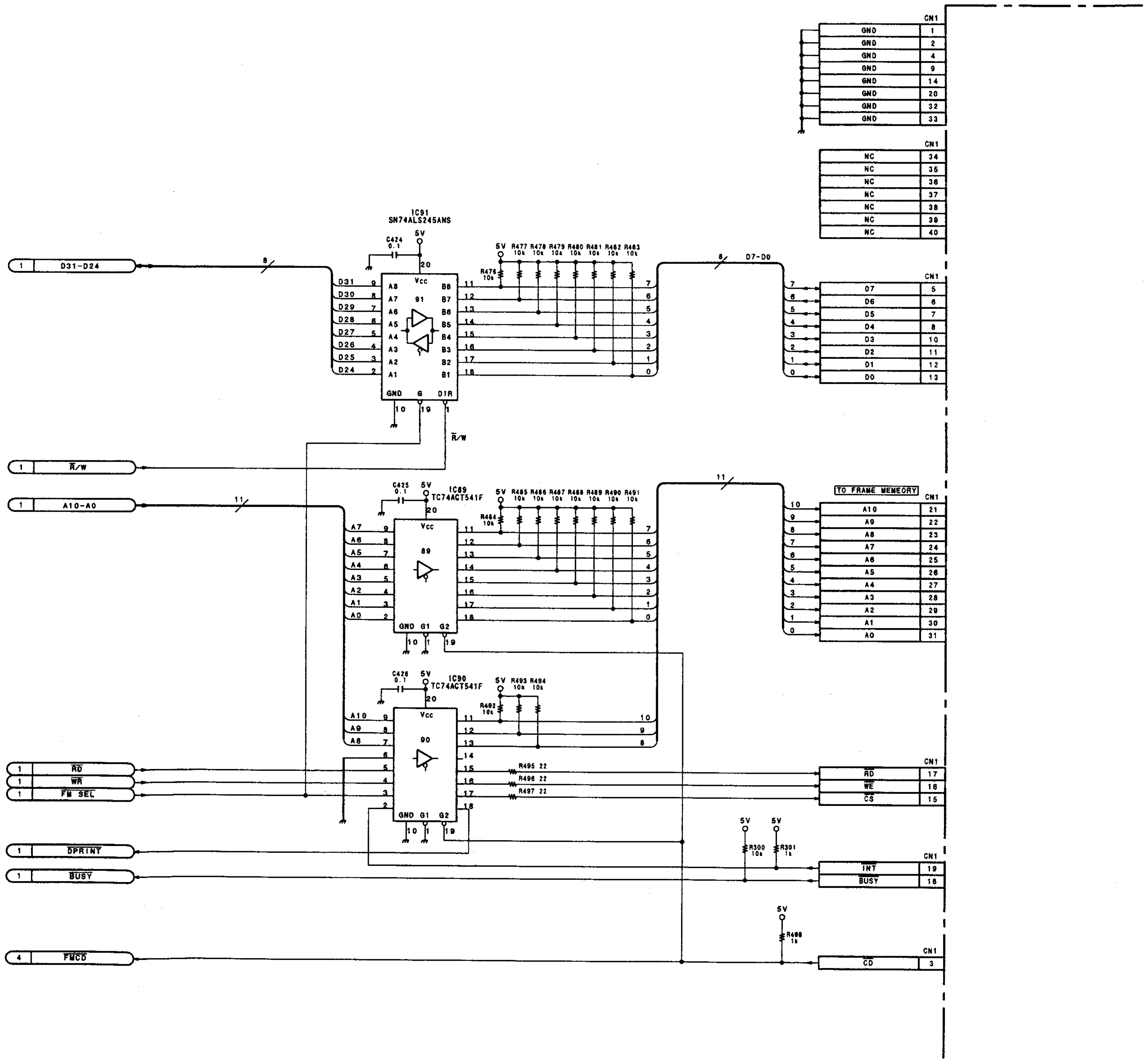
1

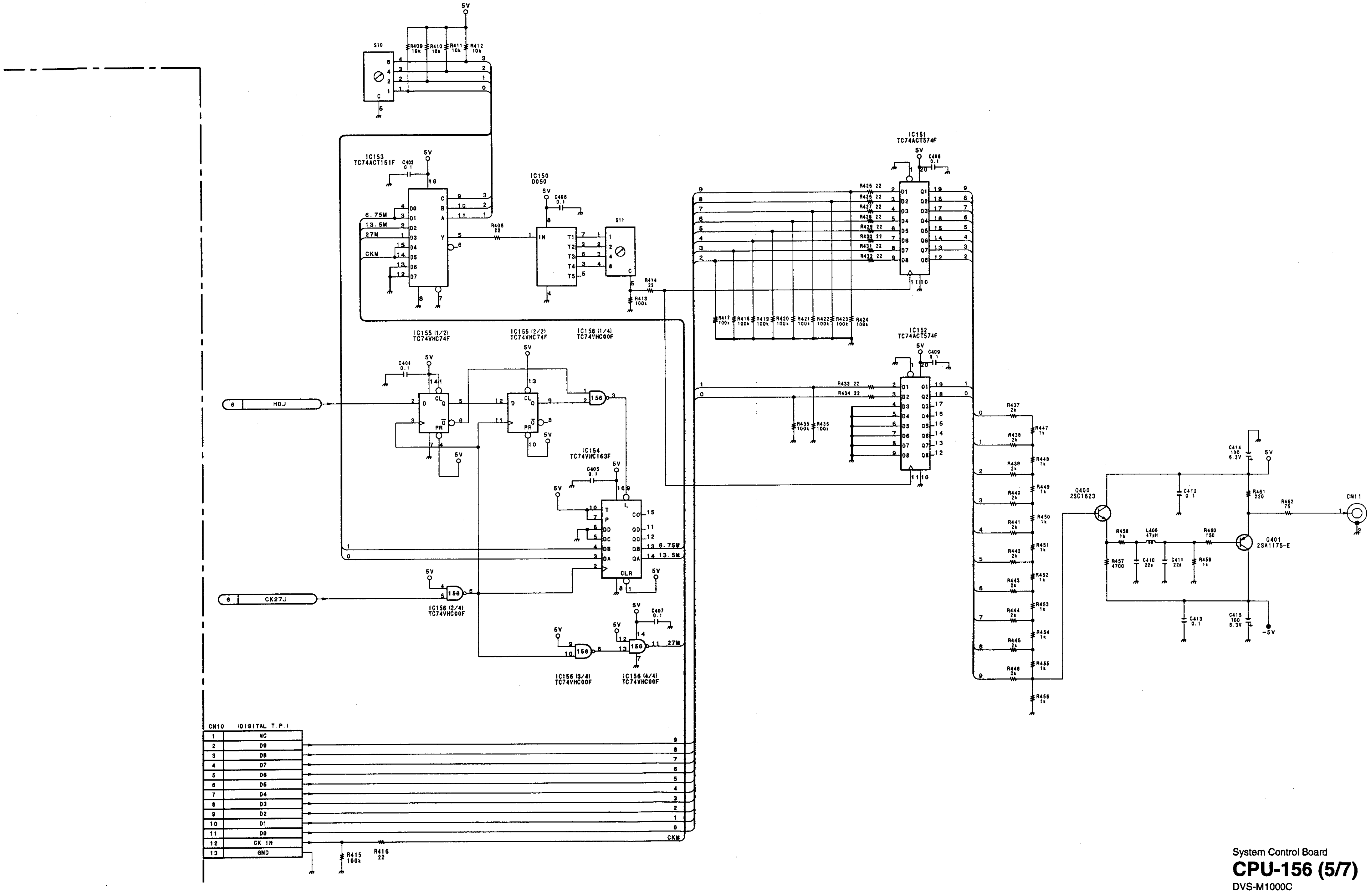
2

3

4

5

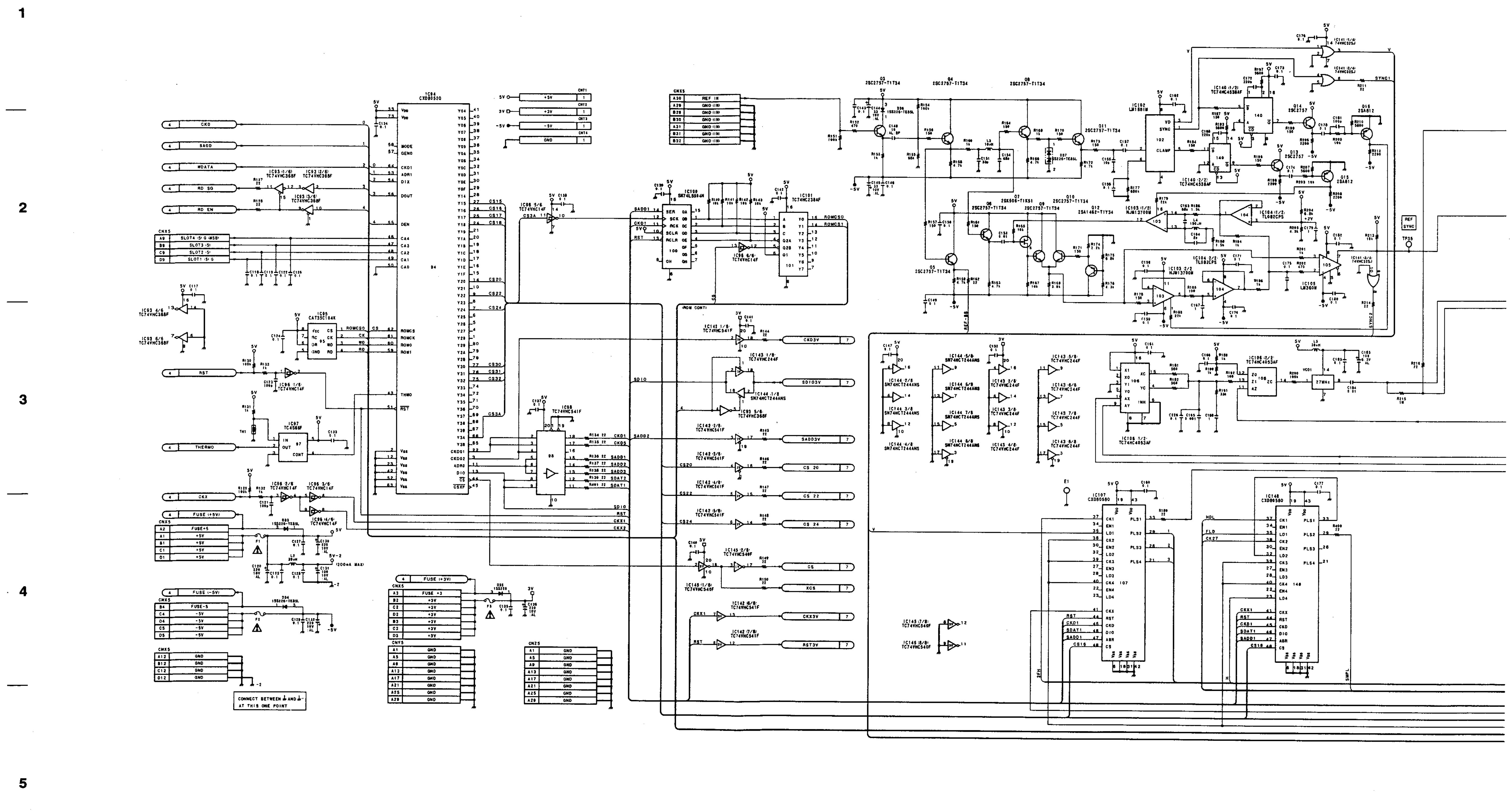

CN1
GND 1
GND 2
GND 4
GND 9
GND 14
GND 20
GND 32
GND 33
CN1
NC 34
NC 35
NC 36
NC 37
NC 38
NC 39
NC 40
IC91
SN74ALS245ANS
C424 0.1
5V
20
Vcc
91
D31-D24
8
D31 9 A8
D30 8 A7
D29 7 A6
D28 6 A5
D27 5 A4
D26 4 A3
D25 3 A2
D24 2 A1
B8 11
B7 12
B6 13
B5 14
B4 15
B3 16
B2 17
B1 18
GND 10
G 19
DIR 1
R/W
5V R477 R478 R479 R480 R481 R482 R483
10k 10k 10k 10k 10k 10k 10k
R476 10k
8 D7-D0
CN1
D7 5
D6 6
D5 7
D4 8
D3 10
D2 11
D1 12
D0 13
R/W
A10-A0
11
C425 0.1
5V
IC89
TC74ACT541F
20
Vcc
89
A7 9
A6 8
A5 7
A4 6
A3 5
A2 4
A1 3
A0 2
GND 10 G1 1 G2 19
5V R485 R486 R487 R488 R489 R490 R491
10k 10k 10k 10k 10k 10k 10k
R484 10k
11
TO FRAME MEMEORY
CN1
A10 21
A9 22
A8 23
A7 24
A6 25
A5 26
A4 27
A3 28
A2 29
A1 30
A0 31
C426 0.1
5V
IC90
TC74ACT541F
20
Vcc
90
A10 9
A9 8
A8 7
5V R493 R494
10k 10k
R492 10k
R495 22
R496 22
R497 22
GND 10 G1 1 G2 19
RD
WR
FM SEL
CN1
RD 17
WE 16
CS 15
DPRINT
BUSY
5V 5V
R300 10k
R301 1k
CN1
INT 19
BUSY 18
5V
R498 1k
FMCD
CN1
CD 3
1
4


5V
S10
R409 10k
R410 10k
R411 10k
R412 10k
IC153
TC74ACT151F
C403 0.1
6.75M
13.5M
27M
CKM
D0
D1
D2
D3
D4
D5
D6
D7
C
B
A
Y
R408 22
IC150
D050
C406 0.1
IN
T1
T2
T3
T4
T5
S11
R414 22
R413 100k
IC151
TC74ACT574F
C408 0.1
R425 22
R426 22
R427 22
R428 22
R429 22
R430 22
R431 22
R432 22
R417 100k
R418 100k
R419 100k
R420 100k
R421 100k
R422 100k
R423 100k
R424 100k
IC152
TC74ACT574F
C409 0.1
R433 22
R434 22
R435 100k
R436 100k
IC155 (1/2)
TC74VHC74F
IC155 (2/2)
TC74VHC74F
IC156 (1/4)
TC74VHC00F
C404 0.1
HDJ
CL
PR
IC154
TC74VHC163F
C405 0.1
CO
QD
QC
QB
QA
DD
DC
DB
DA
CLR
6.75M
13.5M
CK27J
IC156 (2/4)
TC74VHC00F
C407 0.1
27M
IC156 (3/4)
TC74VHC00F
IC156 (4/4)
TC74VHC00F
R437 2k
R438 2k
R439 2k
R440 2k
R441 2k
R442 2k
R443 2k
R444 2k
R445 2k
R446 2k
R447 1k
R448 1k
R449 1k
R450 1k
R451 1k
R452 1k
R453 1k
R454 1k
R455 1k
R456 1k
Q400
2SC1623
R458 1k
L400 47μH
R457 4700
C410 22p
C411 22p
R459 1k
R460 150
C412 0.1
C413 0.1
C414 100 6.3V
C415 100 6.3V
R461 220
R462 75
Q401
2SA1175-E
CN11
-5V
CN10 (DIGITAL T.P.)
1 NC
2 D9
3 D8
4 D7
5 D6
6 D5
7 D4
8 D3
9 D2
10 D1
11 D0
12 CK IN
13 GND
R415 100k
R416 22
CKM

System Control Board
CPU-156 (5/7)
DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-¥SJX003-CPU156

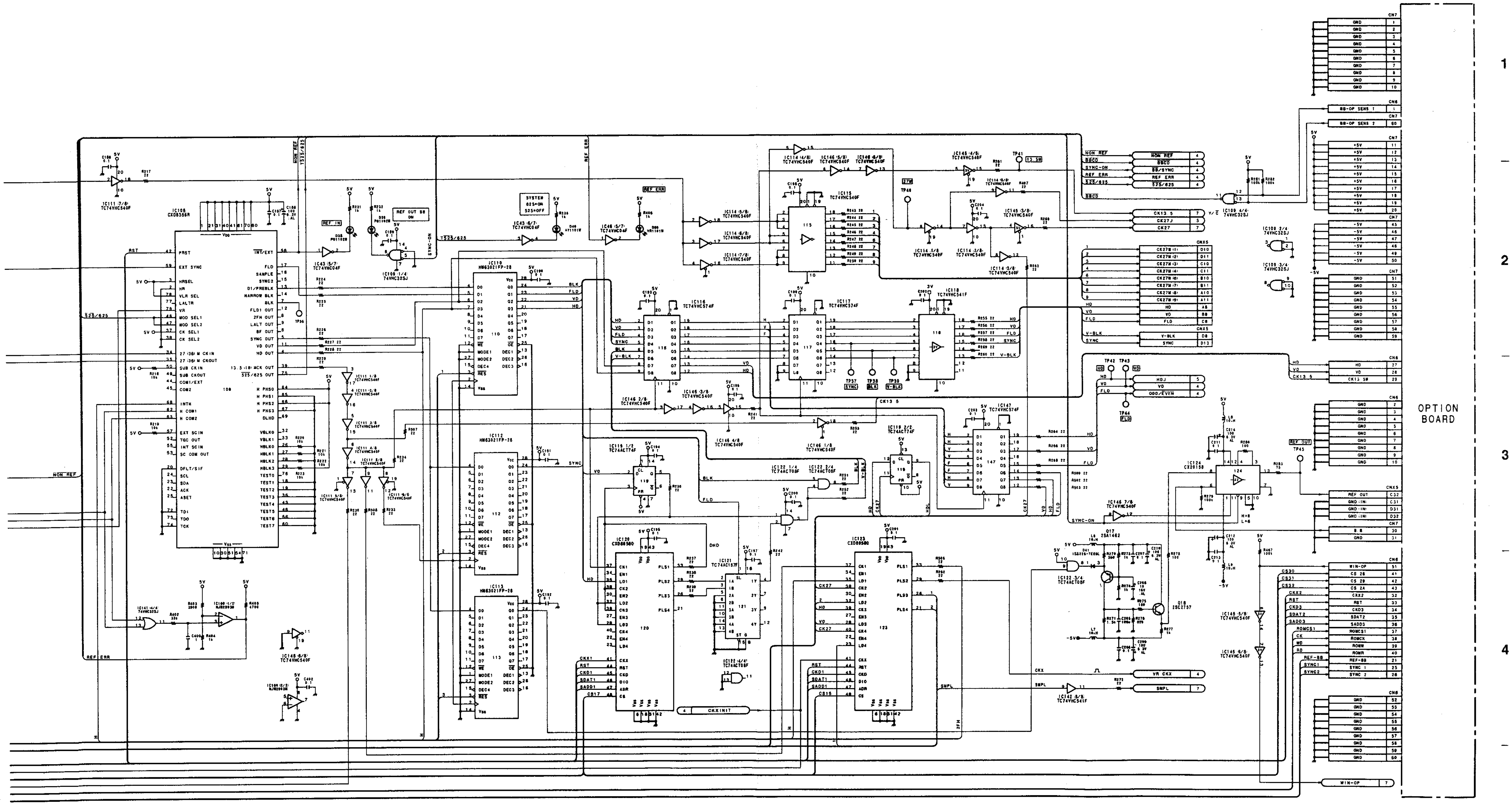
CPU-156 (6/7) System Control Board

DVS-M1000C (SY) : S/N 10001 and Higher



1
2
3
4
5
CKD
SADD
WDATA
RD SG
RD EN
RST
THERMO
CKX
FUSE (+5V)
FUSE (-5V)
FUSE (+3V)
CONNECT BETWEEN AND AT THIS ONE POINT
REF SYNC

3-100

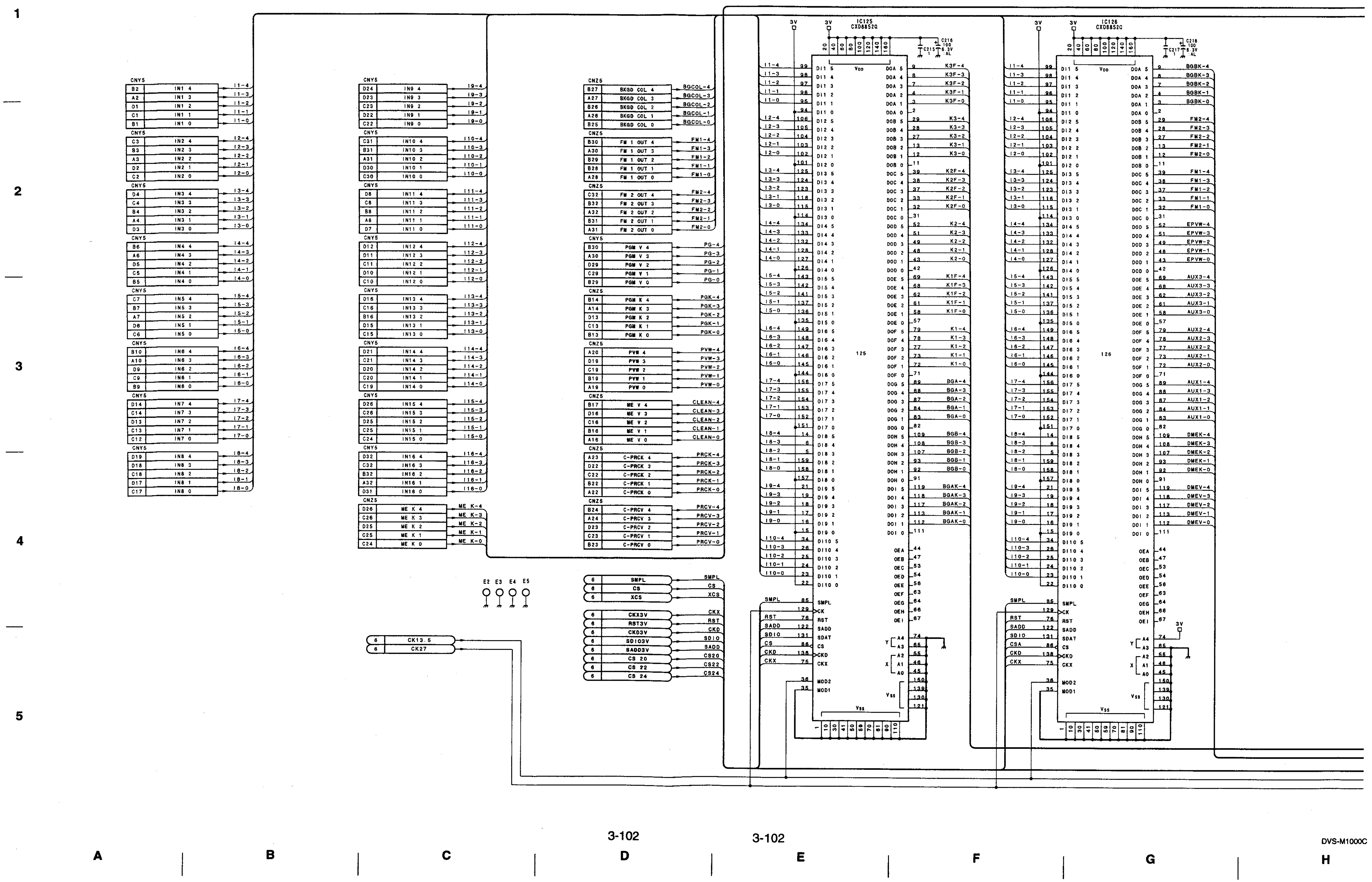

IC108
CXD8356R
IC110
HM63021FP-28
IC112
HM63021FP-28
IC113
HM63021FP-28
IC115
IC116
TC74VHC374F
IC117
TC74VHC374F
IC118
TC74VHC541F
IC119
TC74AC74F
IC120
CXD8580
IC121
TC74AC157F
IC123
CXD8580
IC124
CXD8158
IC147
TC74VHC374F
Q17
2SA1462
Q18
2SC2737
CN7
CN6
CNX5
CN8
OPTION BOARD
NON REF
BBCD
SYNC-ON
REF ERR
525/625
CK13 5
CK27J
CK27
HD
VD
FLD
V-BLK
SYNC
ODD/EVEN
VR CKX
SMPL
CKXINIT
WIN-OP
GND
+5V
-5V
1
2
3
4
5
I
J
K
L
M
N
O
P

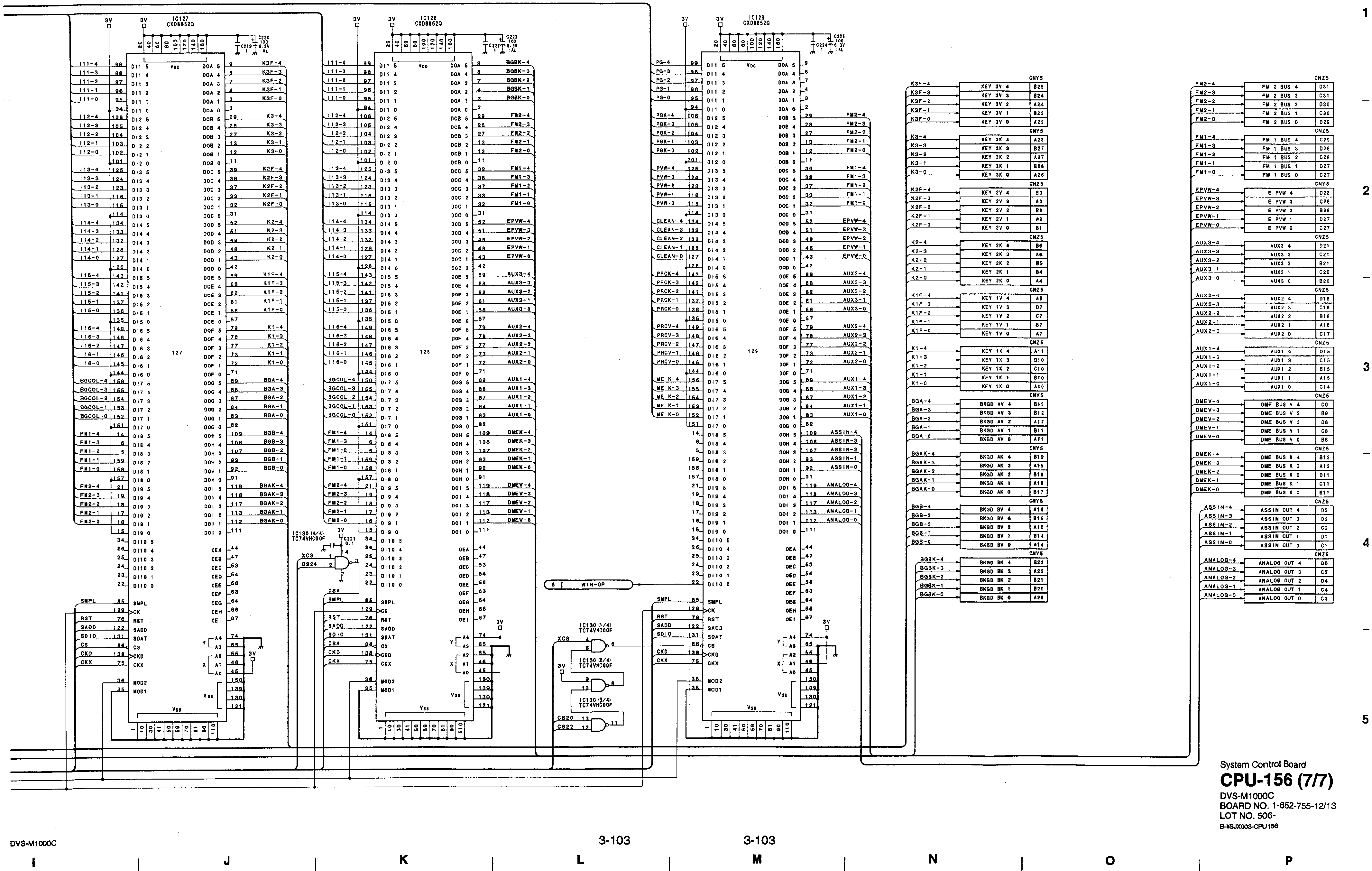
System Control Board

CPU-156 (6/7)

DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-WSJX003-CPU156

DVS-M1000C (SY) : S/N 10001 and Higher

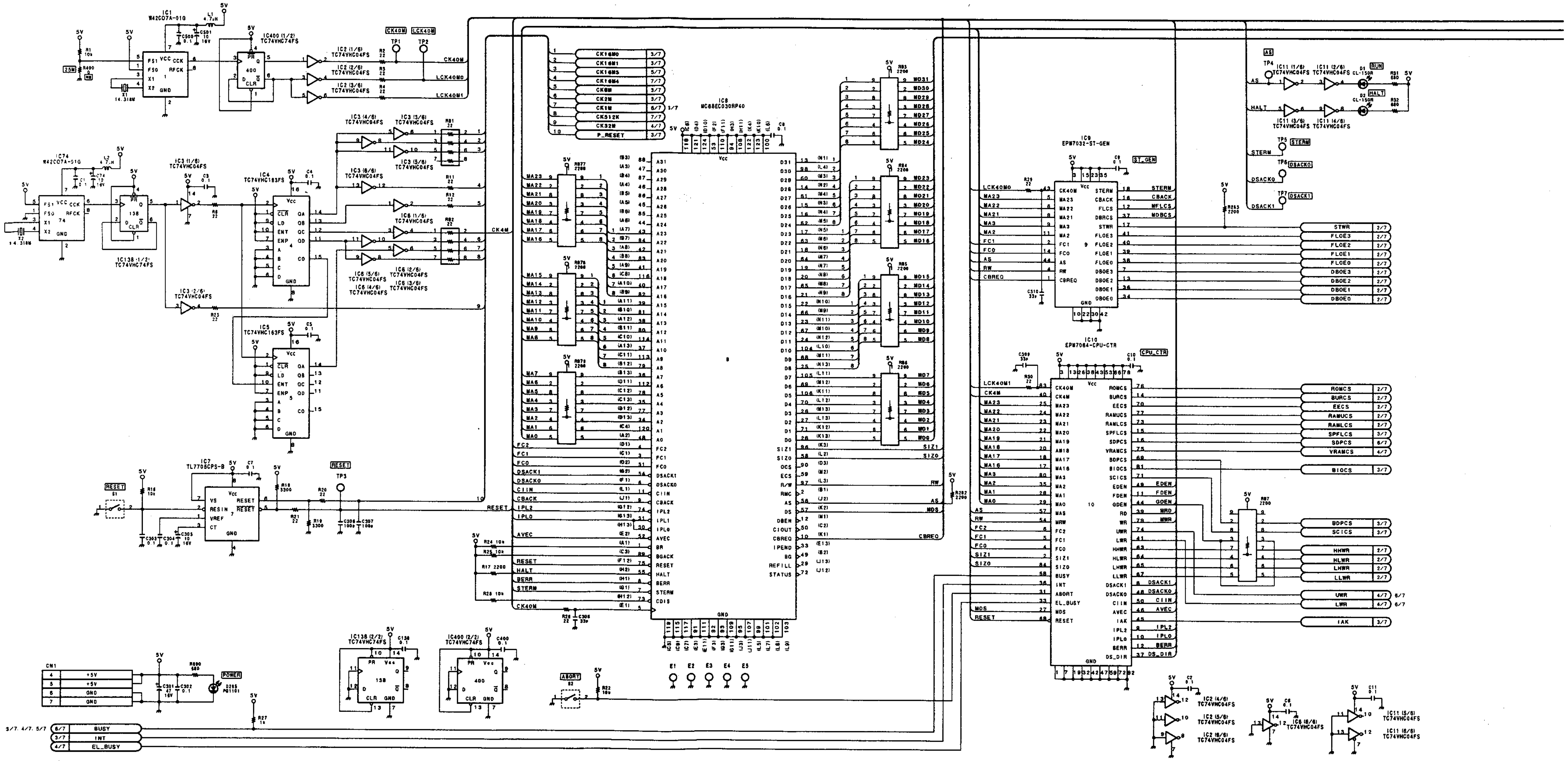

1
2
3
4
5
A
B
C
D
E
F
G
H
CNY5
CNZ5
IN1 4
IN1 3
IN1 2
IN1 1
IN1 0
IN2 4
IN3 4
IN4 4
IN5 4
IN6 4
IN7 4
IN8 4
IN9 4
IN10 4
IN11 4
IN12 4
IN13 4
IN14 4
IN15 4
IN16 4
ME K 4
ME K 3
ME K 2
ME K 1
ME K 0
BKGD COL 4
BKGD COL 3
BKGD COL 2
BKGD COL 1
BKGD COL 0
FM 1 OUT 4
FM 2 OUT 4
PGM V 4
PGM K 4
PVW 4
ME V 4
C-PRCK 4
C-PRCV 4
BGCOL-4
FM1-4
FM2-4
PG-4
PGK-4
PVW-4
CLEAN-4
PRCK-4
PRCV-4
SMPL
CS
XCS
CKX3V
RST3V
CKD3V
SDIO3V
SADD3V
CS 20
CS 22
CS 24
CKX
RST
CKD
SDIO
SADD
CS20
CS22
CS24
CK13.5
CK27
E2
E3
E4
E5
3V
IC125
CXD8852Q
IC126
CXD8852Q
125
126
C215
C216
C217
C218
100
6.3V
AL
VDD
VSS
DI1 5
DOA 5
K3F-4
K3-4
K2F-4
K2-4
K1F-4
K1-4
BGA-4
BGB-4
BGAK-4
BGBK-4
FM2-4
FM1-4
EPVW-4
AUX3-4
AUX2-4
AUX1-4
DMEK-4
DMEV-4
OEA
OEB
OEC
OED
OEE
OEF
OEG
OEH
OEI
SMPL
CK
RST
SADD
SDAT
CS
CKD
CKX
MOD2
MOD1
A4
A3
A2
A1
A0
CSA


1
2
3
4
5
IC127
CXD8852Q
IC128
CXD8852Q
IC129
CXD8852Q
IC130 (4/4)
TC74VHC00F
IC130 (1/4)
TC74VHC00F
IC130 (2/4)
TC74VHC00F
IC130 (3/4)
TC74VHC00F
3V
WIN-OP
XCS
CS24
CSA
CS20
CS22
SMPL
RST
SADD
SDIO
CS
CKD
CKX
CNY5
KEY 3V 4 B25
KEY 3V 3 B24
KEY 3V 2 A24
KEY 3V 1 B23
KEY 3V 0 A23
KEY 3K 4 A28
KEY 3K 3 B27
KEY 3K 2 A27
KEY 3K 1 B26
KEY 3K 0 A26
KEY 2V 4 B3
KEY 2V 3 A3
KEY 2V 2 B2
KEY 2V 1 A2
KEY 2V 0 B1
KEY 2K 4 B6
KEY 2K 3 A6
KEY 2K 2 B5
KEY 2K 1 B4
KEY 2K 0 A4
KEY 1V 4 A8
KEY 1V 3 D7
KEY 1V 2 C7
KEY 1V 1 B7
KEY 1V 0 A7
KEY 1K 4 A11
KEY 1K 3 D10
KEY 1K 2 C10
KEY 1K 1 B10
KEY 1K 0 A10
BKGD AV 4 B13
BKGD AV 3 B12
BKGD AV 2 A12
BKGD AV 1 B11
BKGD AV 0 A11
BKGD AK 4 B19
BKGD AK 3 A19
BKGD AK 2 B18
BKGD AK 1 A18
BKGD AK 0 B17
BKGD BV 4 A16
BKGD BV 3 B15
BKGD BV 2 A15
BKGD BV 1 B14
BKGD BV 0 A14
BKGD BK 4 B22
BKGD BK 3 A22
BKGD BK 2 B21
BKGD BK 1 B20
BKGD BK 0 A20
CNZ5
FM 2 BUS 4 D31
FM 2 BUS 3 C31
FM 2 BUS 2 D30
FM 2 BUS 1 C30
FM 2 BUS 0 D29
FM 1 BUS 4 C29
FM 1 BUS 3 D28
FM 1 BUS 2 C28
FM 1 BUS 1 D27
FM 1 BUS 0 C27
E PVW 4 D28
E PVW 3 C28
E PVW 2 B28
E PVW 1 D27
E PVW 0 C27
AUX3 4 D21
AUX3 3 C21
AUX3 2 B21
AUX3 1 C20
AUX3 0 B20
AUX2 4 D18
AUX2 3 C18
AUX2 2 B18
AUX2 1 A18
AUX2 0 C17
AUX1 4 D15
AUX1 3 C15
AUX1 2 B15
AUX1 1 A15
AUX1 0 C14
DME BUS V 4 C9
DME BUS V 3 B9
DME BUS V 2 D8
DME BUS V 1 C8
DME BUS V 0 B8
DME BUS K 4 B12
DME BUS K 3 A12
DME BUS K 2 D11
DME BUS K 1 C11
DME BUS K 0 B11
ASSIN OUT 4 D3
ASSIN OUT 3 D2
ASSIN OUT 2 C2
ASSIN OUT 1 D1
ASSIN OUT 0 C1
ANALOG OUT 4 D5
ANALOG OUT 3 C5
ANALOG OUT 2 D4
ANALOG OUT 1 C4
ANALOG OUT 0 C3

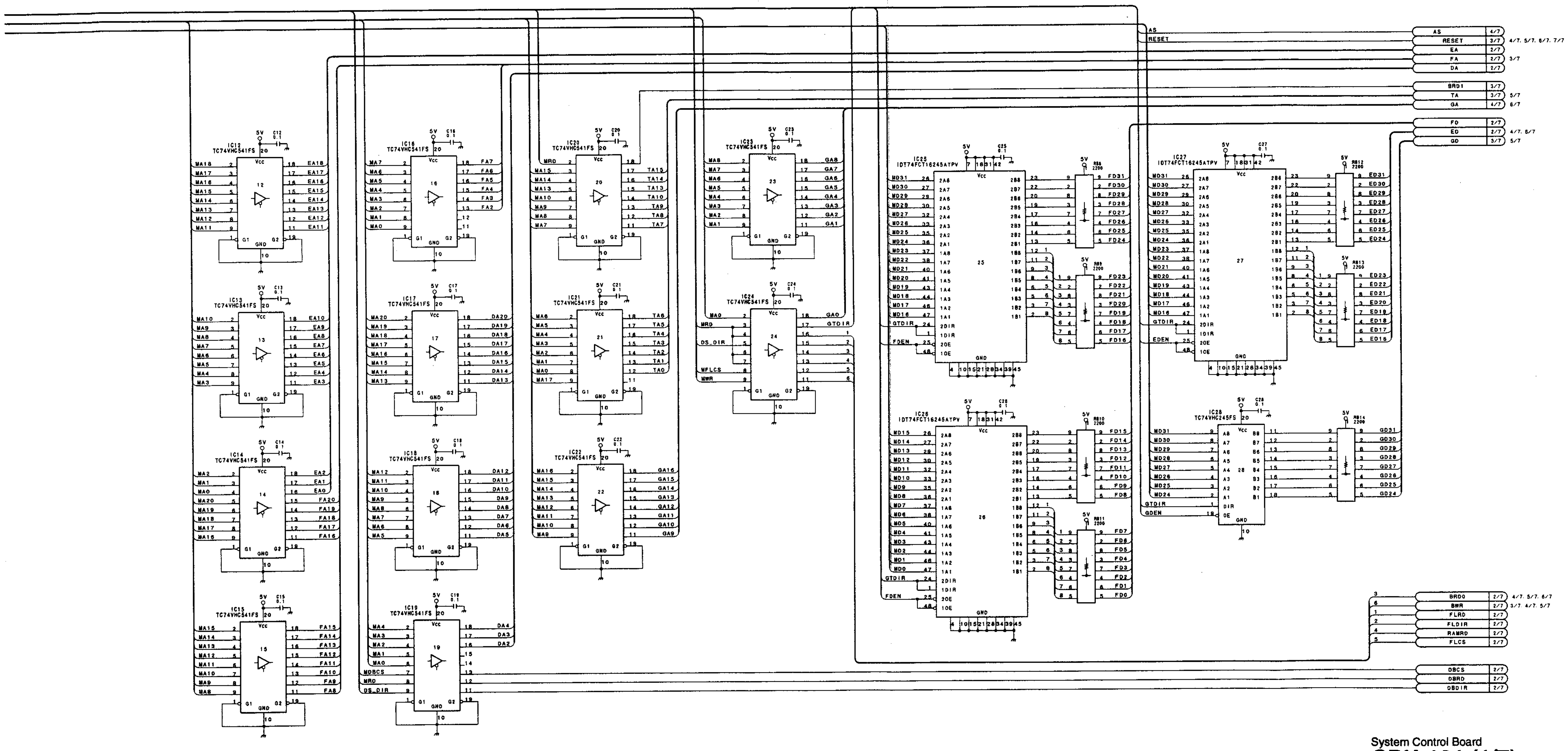
System Control Board
CPU-156 (7/7)
DVS-M1000C
BOARD NO. 1-652-755-12/13
LOT NO. 506-
B-¥SJX003-CPU156

System Control Board CPU-191 (1/7)   CPU-191 (1/7) System Control Board

BKDS-7011/7021/7022	(SY) : S/N 10016 and Higher
BKDS-7012/7023	(SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R	(SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	(SY) : S/N 10001 and Higher



1
2
3
4
5
A
B
C
D
E
F
G
H
IC1 M42C07A-01G
IC400 (1/2) TC74VHC74FS
IC2 (1/6) TC74VHC04FS
CK40M
LCK40M
TP1
TP2
IC74 M42C07A-01G
IC138 (1/2) TC74VHC74FS
IC4 TC74VHC163FS
IC5 TC74VHC163FS
IC3 TC74VHC04FS
IC6 TC74VHC04FS
CK4M
IC7 TL7705CPS-B
RESET
S1
TP3
IC8 MC68EC030RP40
CK16M0
CK16M1
CK16M3
CK16M4
CK8M
CK2M
CK1M
CK512K
CK32M
P_RESET
IC9 EPM7032-ST-GEN
ST_GEN
IC10 EPM7064-CPU-CTR
CPU_CTR
AS
HALT
RUN
STERM
DSACK0
DSACK1
STWR
FLOE3
FLOE2
FLOE1
FLOE0
DBOE3
DBOE2
DBOE1
DBOE0
ROMCS
BURCS
EECS
RAMUCS
RAMLCS
SPFLCS
SDPCS
VRAMCS
BIOCS
BDPCS
SCICS
HHWR
HLWR
LHWR
LLWR
UWR
LWR
IAK
IC138 (2/2) TC74VHC74FS
IC400 (2/2) TC74VHC74FS
ABORT
S2
CN1
+5V
GND
POWER
BUSY
INT
EL_BUSY
E1
E2
E3
E4
E5
IC11 TC74VHC04FS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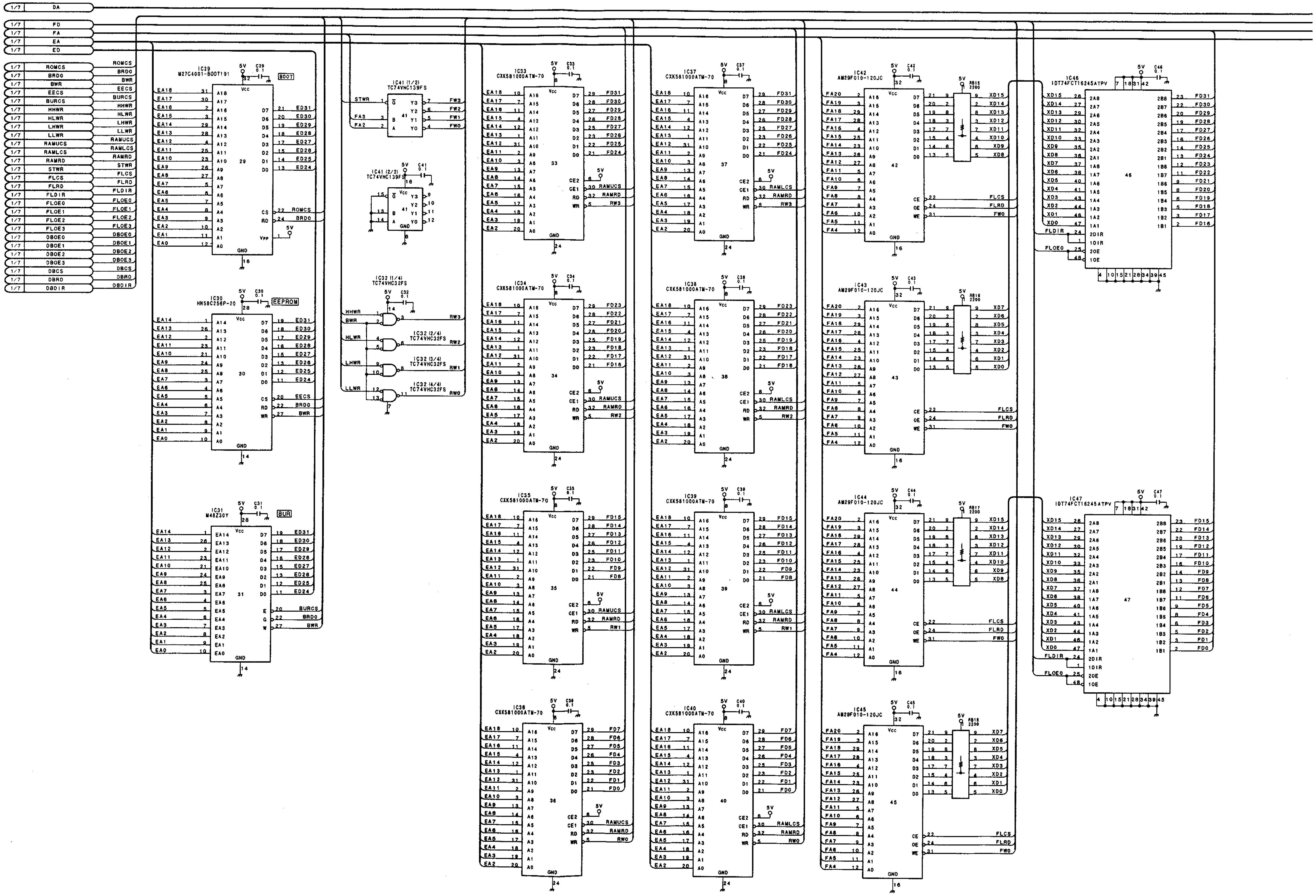
IC13 TC74VHC541FS
IC14 TC74VHC541FS
IC15 TC74VHC541FS
IC16 TC74VHC541FS
IC17 TC74VHC541FS
IC18 TC74VHC541FS
IC19 TC74VHC541FS
IC20 TC74VHC541FS
IC21 TC74VHC541FS
IC22 TC74VHC541FS
IC23 TC74VHC541FS
IC24 TC74VHC541FS
IC25 IDT74FCT16245ATPV
IC26 IDT74FCT16245ATPV
IC27 IDT74FCT16245ATPV
IC28 TC74VHC245FS
AS 4/7
RESET 3/7 4/7, 5/7, 6/7, 7/7
EA 2/7
FA 2/7 3/7
DA 2/7
BRD1 3/7
TA 3/7 5/7
GA 4/7 6/7
FD 2/7
ED 2/7 4/7, 6/7
GD 3/7 5/7
BRD0 2/7 4/7, 5/7, 6/7
BWR 2/7 3/7 4/7, 5/7
FLRD 2/7
FLDIR 2/7
RAMRD 2/7
FLCS 2/7
DBCS 2/7
DBRD 2/7
DBDIR 2/7
1
2
3
4
5

System Control Board
CPU-191 (1/7)

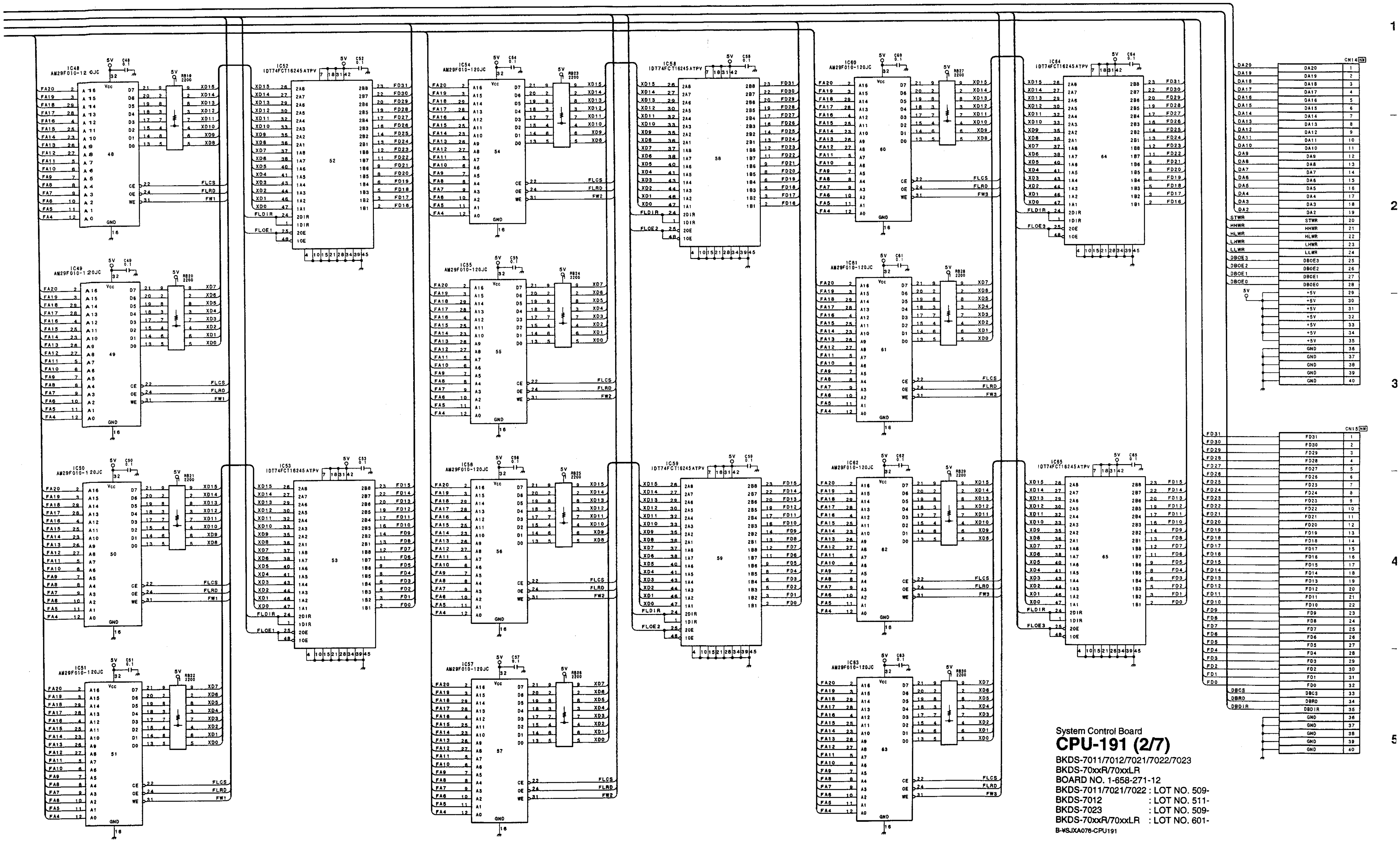
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CPU191

CPU-191 (2/7) System Control Board

BKDS-7011/7021/7022	**(SY) : S/N 10016 and Higher**
BKDS-7012/7023	**(SY) : S/N 10001 and Higher**
BKDS-7011R/7012R/7021R/7022R/7023R	**(SY) : S/N 10001 and Higher**
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	**(SY) : S/N 10001 and Higher**


1
2
3
4
5
1/7 DA
1/7 FD
1/7 FA
1/7 EA
1/7 ED
ROMCS
BRDO
BWR
EECS
BURCS
HHWR
HLWR
LHWR
LLWR
RAMUCS
RAMLCS
RAMRD
STWR
FLCS
FLRD
FLDIR
FLOE0
FLOE1
FLOE2
FLOE3
DBOE0
DBOE1
DBOE2
DBOE3
DBCS
DBRD
DBDIR
IC29 M27C4001-BOOT191
BOOT
IC30 HN58C256P-20
EEPROM
IC31 M48Z30Y
BUR
IC41 (1/2) TC74VHC139FS
IC41 (2/2) TC74VHC139FS
IC32 (1/4) TC74VHC32FS
IC32 (2/4) TC74VHC32FS
IC32 (3/4) TC74VHC32FS
IC32 (4/4) TC74VHC32FS
FW3
FW2
FW1
FW0
RW3
RW2
RW1
RW0
IC33 CXK581000ATM-70
IC34 CXK581000ATM-70
IC35 CXK581000ATM-70
IC36 CXK581000ATM-70
IC37 CXK581000ATM-70
IC38 CXK581000ATM-70
IC39 CXK581000ATM-70
IC40 CXK581000ATM-70
IC42 AM29F010-120JC
IC43 AM29F010-120JC
IC44 AM29F010-120JC
IC45 AM29F010-120JC
RB15 2200
RB16 2200
RB17 2200
RB18 2200
IC46 IDT74FCT16245ATPV
IC47 IDT74FCT16245ATPV
5V
A
B
C
D
E
F
G
H

3-106 (b)


IC48 AM29F010-120JC
IC49 AM29F010-120JC
IC50 AM29F010-120JC
IC51 AM29F010-120JC
IC52 IDT74FCT16245ATPV
IC53 IDT74FCT16245ATPV
IC54 AM29F010-120JC
IC55 AM29F010-120JC
IC56 AM29F010-120JC
IC57 AM29F010-120JC
IC58 IDT74FCT16245ATPV
IC59 IDT74FCT16245ATPV
IC60 AM29F010-120JC
IC61 AM29F010-120JC
IC62 AM29F010-120JC
IC63 AM29F010-120JC
IC64 IDT74FCT16245ATPV
IC65 IDT74FCT16245ATPV
CN14
CN15
5V
GND
FLCS
FLRD
FW1
FW2
FW3
FLDIR
FLOE1
FLOE2
FLOE3
STWR
HHWR
HLWR
LHWR
LLWR
DBOE3
DBOE2
DBOE1
DBOE0
DBCS
DBRD
DBDIR
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board

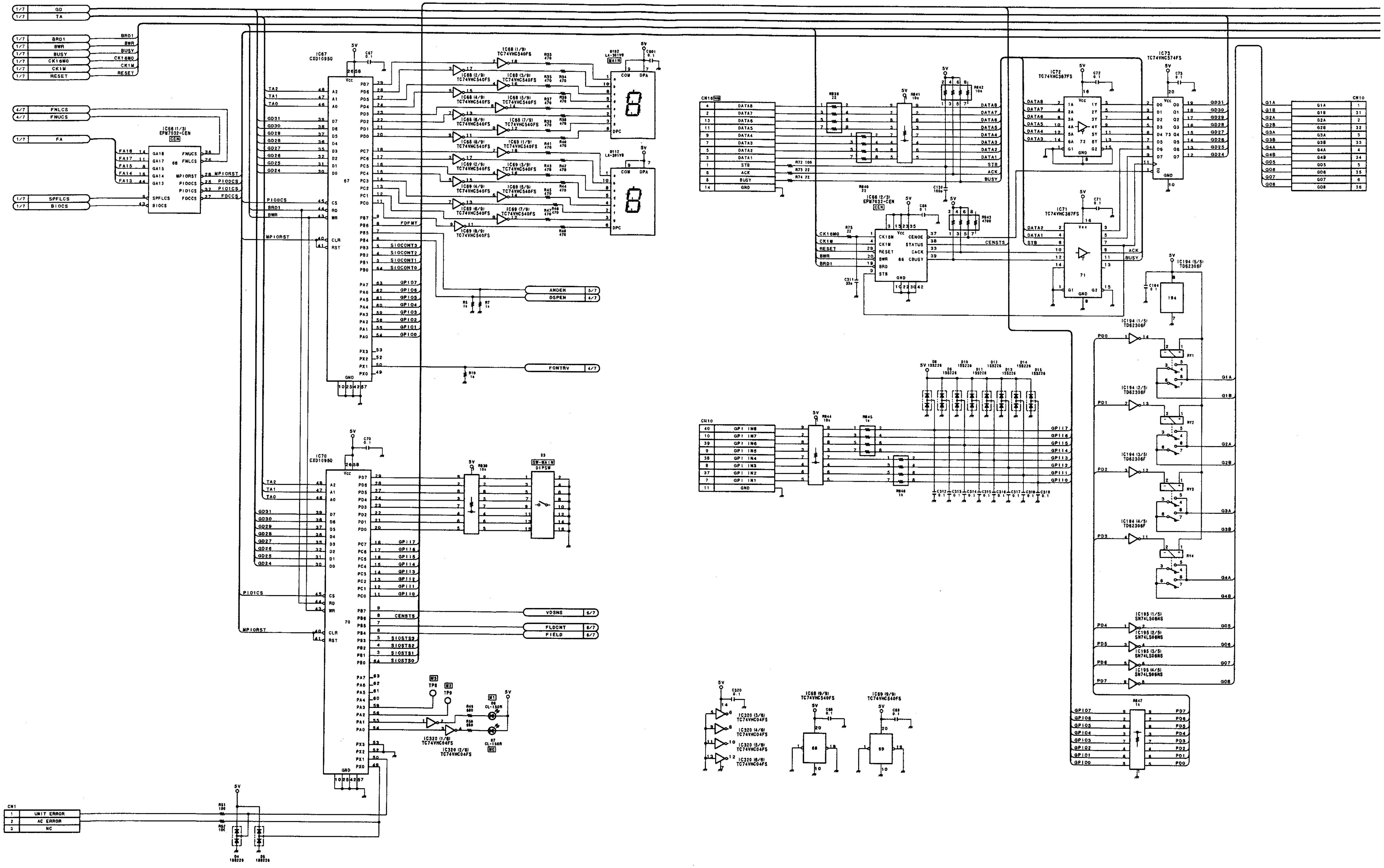
CPU-191 (2/7)

BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CPU191

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

CPU-191 (3/7) System Control Board

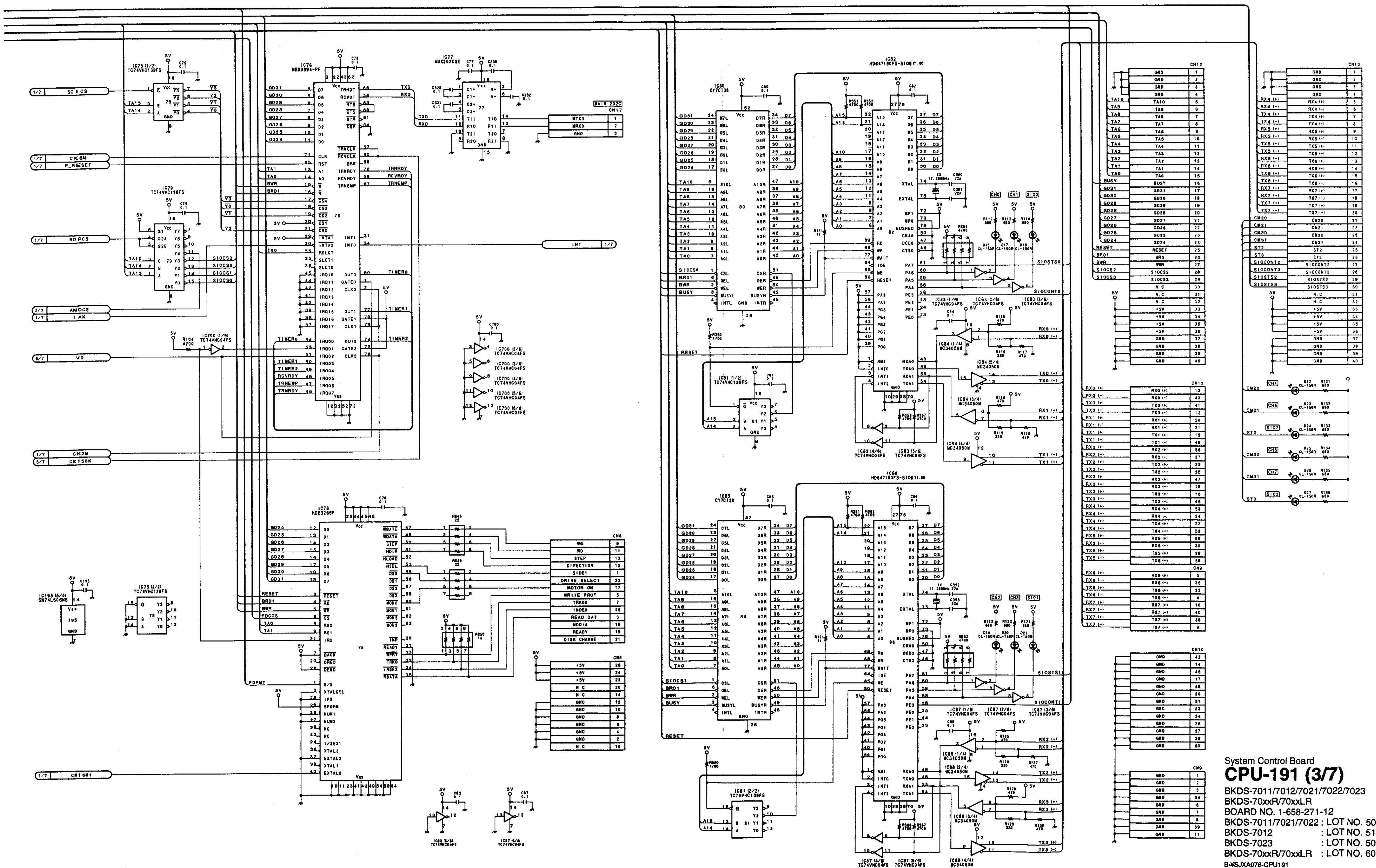
BKDS-7011/7021/7022	(SY) : S/N 10016 and Higher
BKDS-7012/7023	(SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R	(SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	(SY) : S/N 10001 and Higher


1
2
3
4
5
GD
TA
BRD1
BWR
BUSY
CK16MO
CK1M
RESET
FNLCS
FNUCS
FA
SPFLCS
BIOCS
IC66 (1/3) EPM7032-CEN
IC67 CXD1095Q
IC70 CXD1095Q
IC68 TC74VHC540FS
IC69 TC74VHC540FS
LA-301VB
ANDEN
DSPEN
FONTRV
VDSNS
FLDCNT
FIELD
S3 SW-MAIN DIPSW
TP8
TP9
CL-150R
IC320 TC74VHC04FS
CN1
UNIT ERROR
AC ERROR
NC
1SS226
CN16
DATA8
DATA7
DATA6
DATA5
DATA4
DATA3
DATA2
DATA1
STB
ACK
BUSY
GND
IC66 (2/3) EPM7032-CEN
IC72 TC74VHC367FS
IC71 TC74VHC367FS
IC73 TC74VHC574FS
CN10
GPI IN8
GPI IN7
GPI IN6
GPI IN5
GPI IN4
GPI IN3
GPI IN2
GPI IN1
IC194 TD62306F
RY1
RY2
RY3
RY4
IC195 SN74LS06NS
G1A
G1B
G2A
G2B
G3A
G3B
G4A
G4B
GO5
GO6
GO7
GO8
5V

3-108 (b)

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

A B C D E F G H

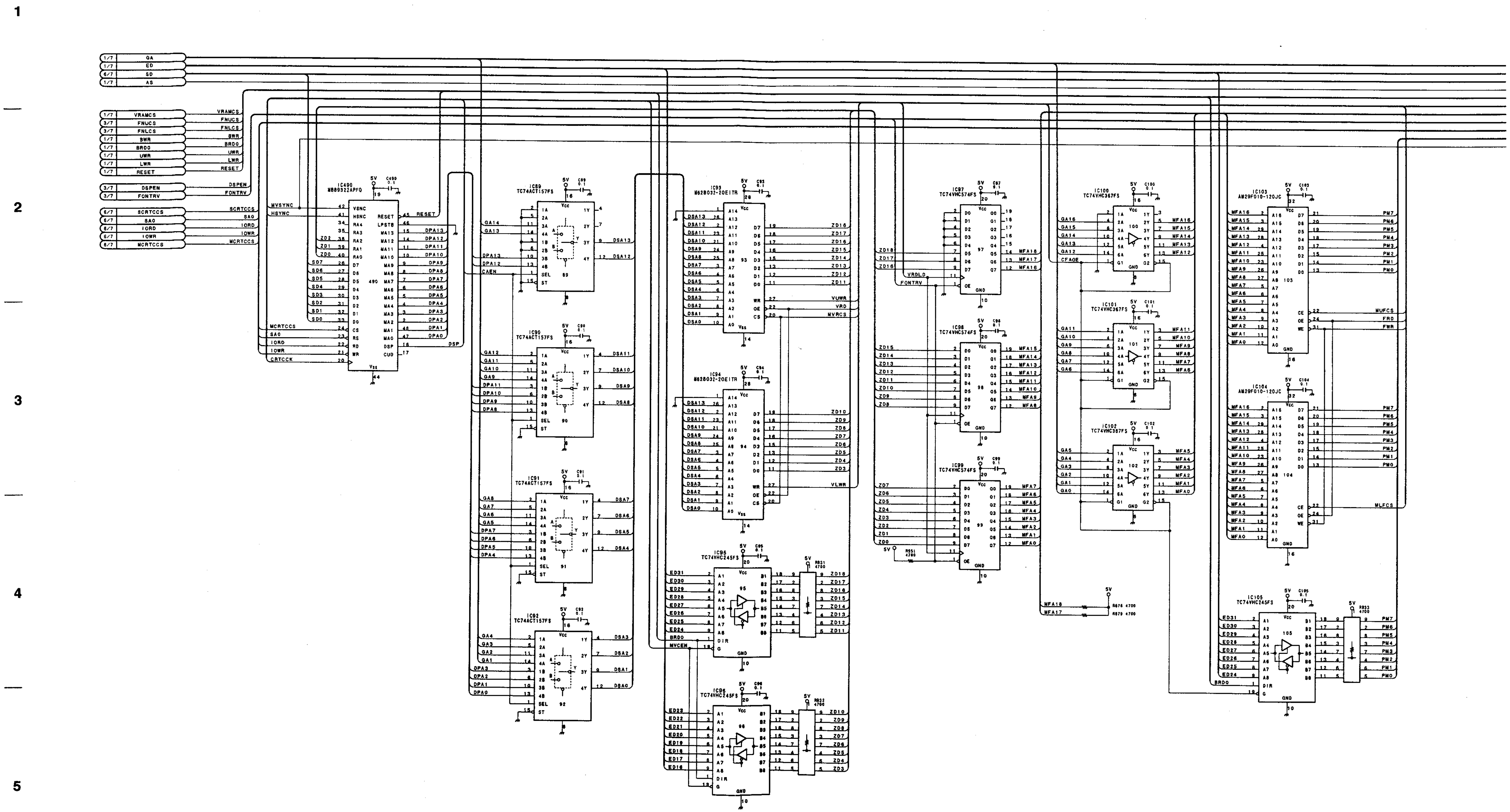

IC75 (1/2) TC74VHC139FS
IC76 MB89394-PF
IC77 MAX202CSE
IC79 TC74VHC138FS
IC78 HD63266F
IC80 CY7C136
IC81 (1/2) TC74VHC139FS
IC81 (2/2) TC74VHC139FS
IC82 HD647180FS-S106 V1.00
IC85 CY7C136
IC86 HD647180FS-S106 V1.00
IC195 (5/5) SN74LS08NS
IC75 (2/2) TC74VHC139FS
IC700 TC74VHC04FS
IC83 TC74VHC04FS
IC84 MC34050M
IC87 TC74VHC04FS
IC88 MC34050M
MAIN 232C CN17
CN8
CN9
CN10
CN12
CN13
SCSI CS
CK8M
P_RESET
BDPCS
AMDCS
IAK
VD
CK2M
CK150K
CK16M1
INT
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-191 (3/7)
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CPU191

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

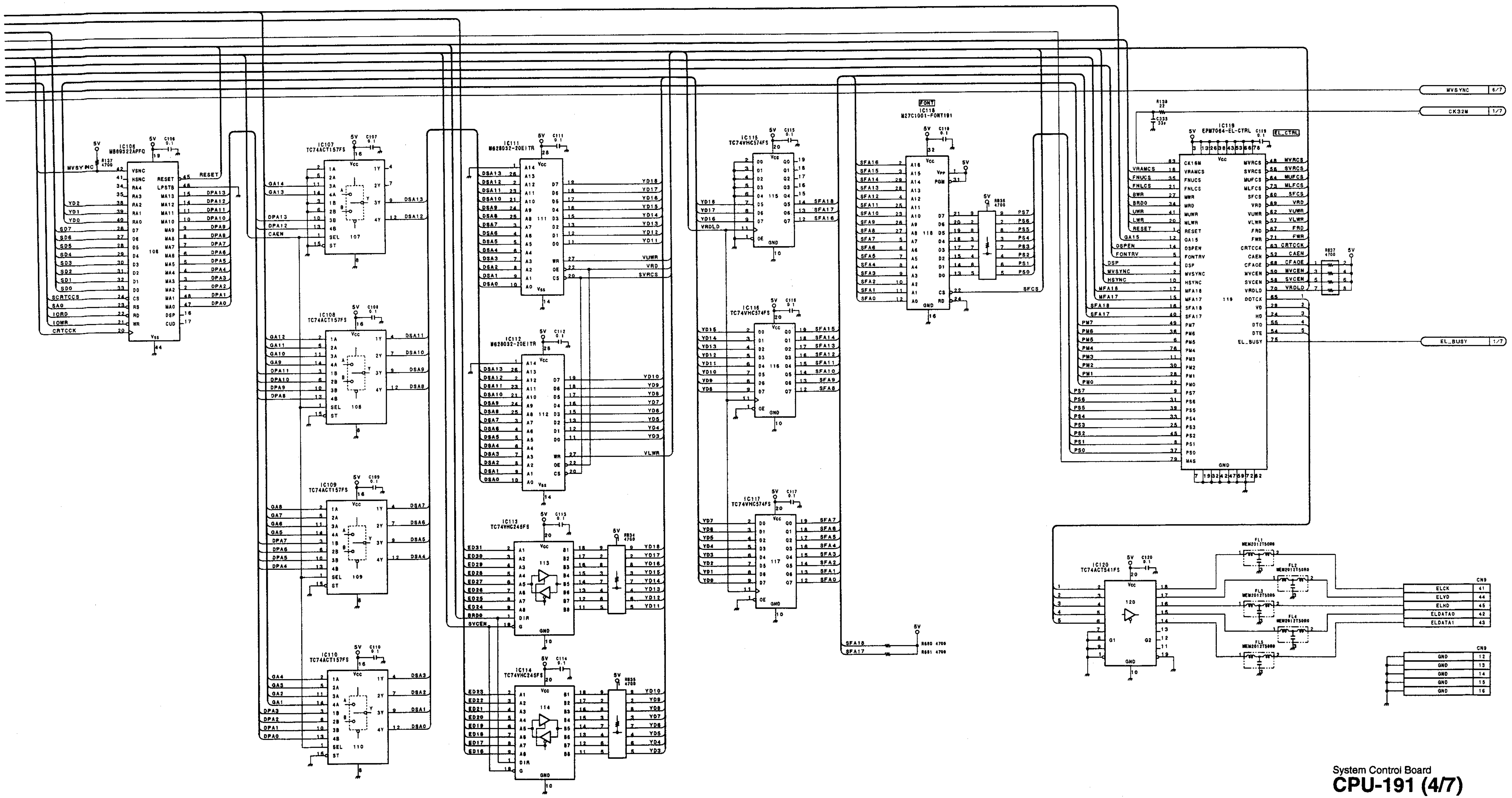
CPU-191 (4/7) System Control Board

BKDS-7011/7021/7022	(SY) : S/N 10016 and Higher
BKDS-7012/7023	(SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R	(SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	(SY) : S/N 10001 and Higher


1
2
3
4
5
1/7 GA
1/7 ED
6/7 SD
1/7 AS
1/7 VRAMCS
3/7 FNUCS
3/7 FNLCS
1/7 BWR
1/7 BRDO
1/7 UWR
1/7 LWR
1/7 RESET
3/7 DSPEN
3/7 FONTRV
6/7 SCRTCCS
6/7 SAO
6/7 IORD
6/7 IOWR
6/7 MCRTCCS
MVSYNC
HSYNC
IC490 MB89322APFQ
IC89 TC74ACT157FS
IC90 TC74ACT157FS
IC91 TC74ACT157FS
IC92 TC74ACT157FS
IC93 M628032-20EITR
IC94 M628032-20EITR
IC95 TC74VHC245FS
IC96 TC74VHC245FS
IC97 TC74VHC574FS
IC98 TC74VHC574FS
IC99 TC74VHC574FS
IC100 TC74VHC367FS
IC101 TC74VHC367FS
IC102 TC74VHC367FS
IC103 AM29F010-120JC
IC104 AM29F010-120JC
IC105 TC74VHC245FS
R831 4700
R832 4700
R833 4700
R851 4700
R874 4700
R879 4700
5V
DSP
VRDLD
CFAOE
MVCEN
MUFCS
MLFCS
FRD
FWR
VUWR
VRD
MVRCS
VLWR

A
B
C
D
E
F
G
H

3-110 (b)

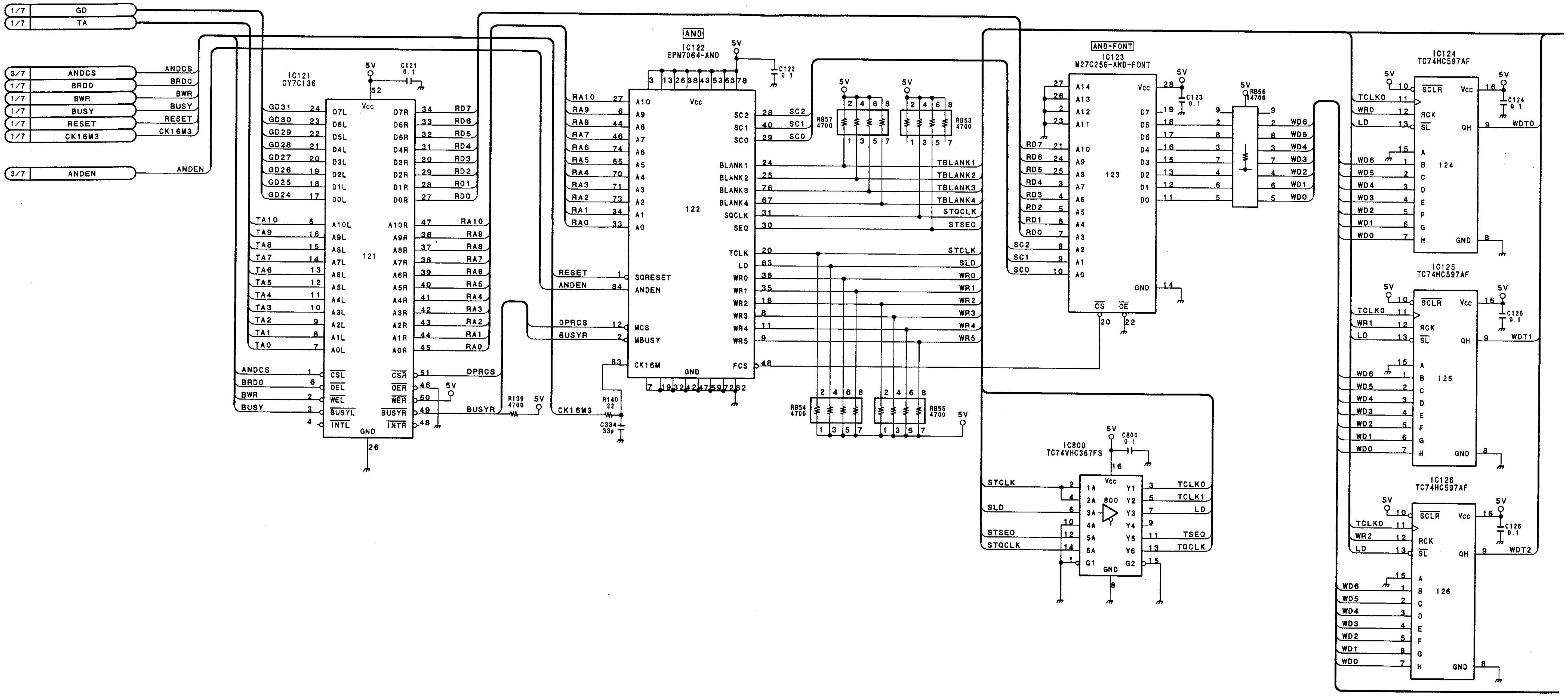

1
2
3
4
5
IC106
MB89522APFQ
IC107
TC74ACT157FS
IC108
TC74ACT157FS
IC109
TC74ACT157FS
IC110
TC74ACT157FS
IC111
M628032-20E1TR
IC112
M628032-20E1TR
IC113
TC74VHC245FS
IC114
TC74VHC245FS
IC115
TC74VHC574FS
IC116
TC74VHC574FS
IC117
TC74VHC574FS
FONT
IC118
M27C1001-FONT191
EL_CTRL
IC119
EPM7064-EL-CTRL
IC120
TC74ACT541FS
MVSYNC 6/7
CK32M 1/7
EL_BUSY 1/7
CN9
ELCK
ELVD
ELHD
ELDATA0
ELDATA1
GND

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

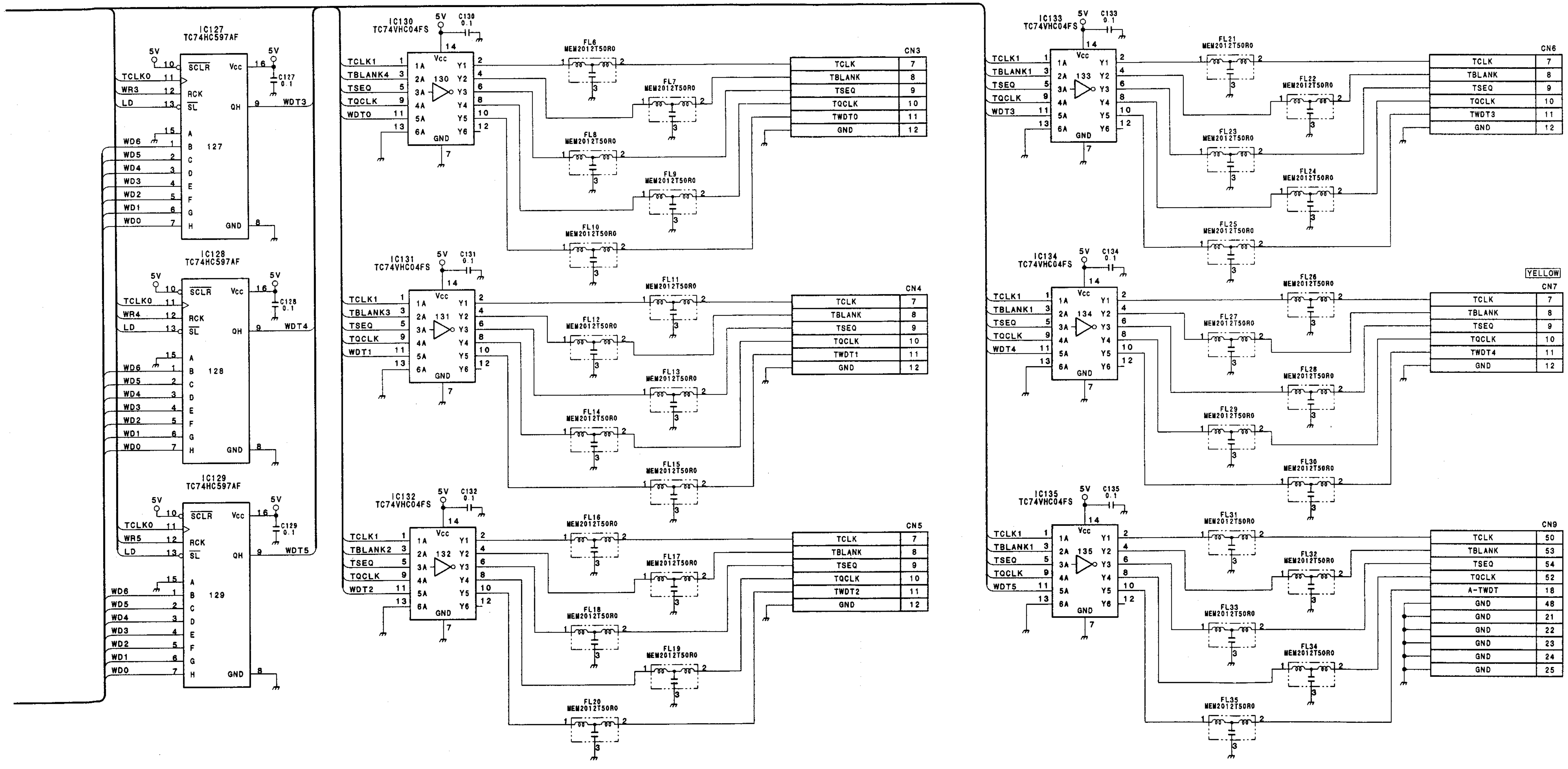
System Control Board
CPU-191 (4/7)
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
8-¥SJXA076-CPU191

CPU-191 (5/7) System Control Board

BKDS-7011/7021/7022 (SY) : S/N 10016 and Higher
BKDS-7012/7023 (SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R (SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR (SY) : S/N 10001 and Higher


1
2
3
4
5
1/7 GD
1/7 TA
3/7 ANDCS
1/7 BRDO
1/7 BWR
1/7 BUSY
1/7 RESET
1/7 CK16M3
3/7 ANDEN
IC121 CY7C136
IC122 EPM7064-AND
AND
IC123 M27C256-AND-FONT
AND-FONT
IC124 TC74HC597AF
IC125 TC74HC597AF
IC126 TC74HC597AF
IC800 TC74VHC367FS
C121 0.1
C122 0.1
C123 0.1
C124 0.1
C125 0.1
C126 0.1
C800 0.1
C334 33p
R139 4700
R140 22
RB53 4700
RB54 4700
RB55 4700
RB56 4700
RB57 4700
5V
GD31 GD30 GD29 GD28 GD27 GD26 GD25 GD24
TA10 TA9 TA8 TA7 TA6 TA5 TA4 TA3 TA2 TA1 TA0
RD7 RD6 RD5 RD4 RD3 RD2 RD1 RD0
RA10 RA9 RA8 RA7 RA6 RA5 RA4 RA3 RA2 RA1 RA0
DPRCS
BUSYR
SORESET
ANDEN
MCS
MBUSY
CK16M
SC2 SC1 SC0
BLANK1 BLANK2 BLANK3 BLANK4
SQCLK SEQ
TCLK LD WR0 WR1 WR2 WR3 WR4 WR5
FCS
TBLANK1 TBLANK2 TBLANK3 TBLANK4
STQCLK STSEQ STCLK SLD
TCLK0 TCLK1 TSEQ TQCLK
WD6 WD5 WD4 WD3 WD2 WD1 WD0
WDT0 WDT1 WDT2
SCLR RCK SL QH
Vcc GND

3-112 (b)

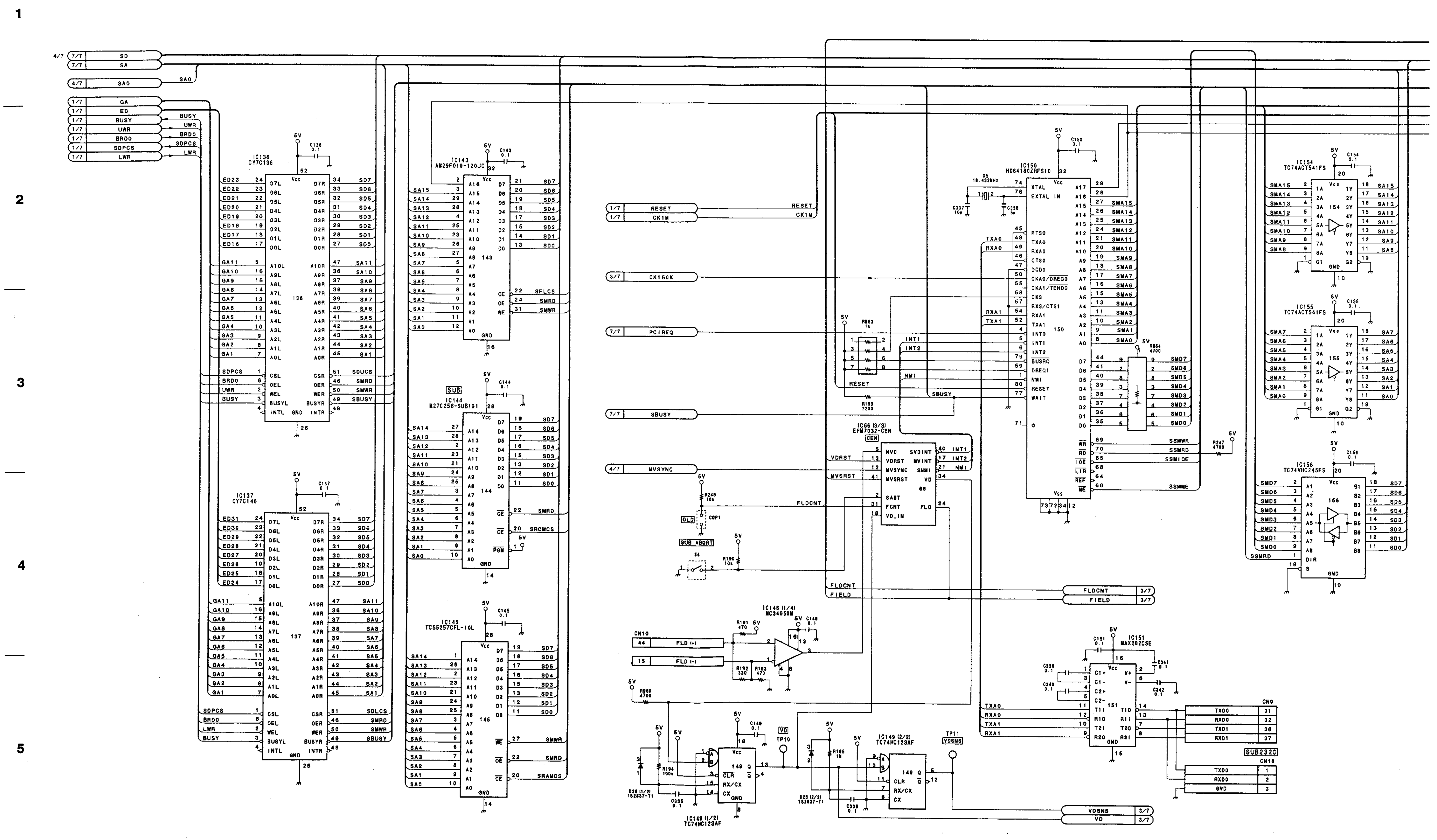

IC127
TC74HC597AF
IC128
TC74HC597AF
IC129
TC74HC597AF
5V
SCLR
Vcc
RCK
SL
QH
GND
A
B
C
D
E
F
G
H
127
128
129
C127 0.1
C128 0.1
C129 0.1
TCLKO
WR3
WR4
WR5
LD
WD6
WD5
WD4
WD3
WD2
WD1
WD0
WDT3
WDT4
WDT5
IC130
TC74VHC04FS
IC131
TC74VHC04FS
IC132
TC74VHC04FS
IC133
TC74VHC04FS
IC134
TC74VHC04FS
IC135
TC74VHC04FS
C130 0.1
C131 0.1
C132 0.1
C133 0.1
C134 0.1
C135 0.1
1A
2A
3A
4A
5A
6A
Y1
Y2
Y3
Y4
Y5
Y6
130
131
132
133
134
135
TCLK1
TBLANK4
TBLANK3
TBLANK2
TBLANK1
TSEQ
TQCLK
WDT0
WDT1
WDT2
FL6
FL7
FL8
FL9
FL10
FL11
FL12
FL13
FL14
FL15
FL16
FL17
FL18
FL19
FL20
FL21
FL22
FL23
FL24
FL25
FL26
FL27
FL28
FL29
FL30
FL31
FL32
FL33
FL34
FL35
MEM2012T50R0
CN3
CN4
CN5
CN6
CN7
CN9
YELLOW
TCLK
TBLANK
TSEQ
TQCLK
TWDT0
TWDT1
TWDT2
TWDT3
TWDT4
A-TWDT
GND
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-191 (5/7)
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CPU191

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

CPU-191 (6/7) System Control Board

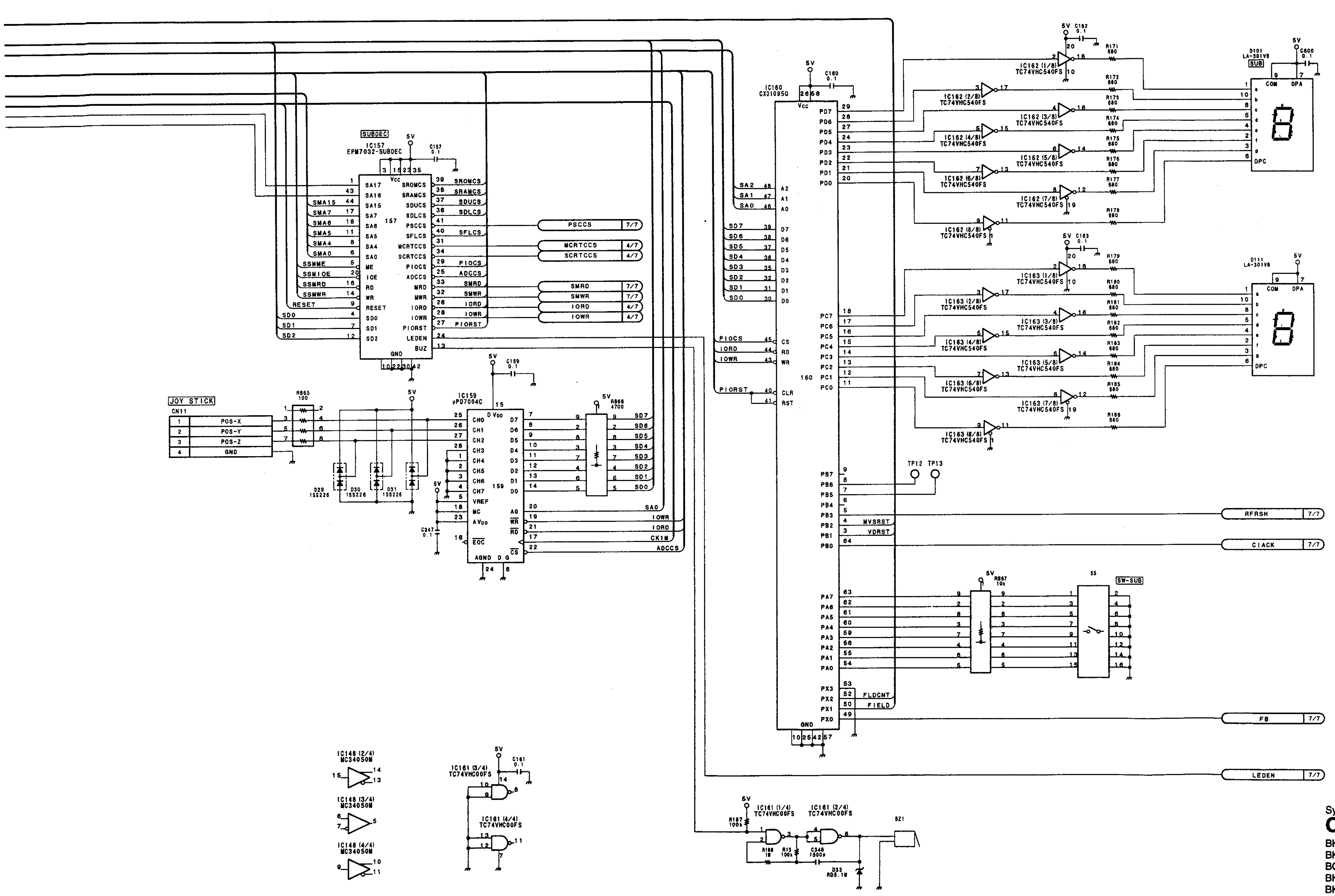
BKDS-7011/7021/7022	(SY) : S/N 10016 and Higher
BKDS-7012/7023	(SY) : S/N 10001 and Higher
BKDS-7011R/7012R/7021R/7022R/7023R	(SY) : S/N 10001 and Higher
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	(SY) : S/N 10001 and Higher


1
2
3
4
5
SD
SA
SA0
GA
ED
BUSY
UWR
BRDO
SDPCS
LWR
IC136
CY7C136
IC137
CY7C146
IC143
AM29F010-120JC
SUB
IC144
M27C256-SUB191
IC145
TC55257CFL-10L
RESET
CK1M
CK150K
PCIREQ
SBUSY
MVSYNC
IC66 (3/3)
EPM7032-CEN
CEN
OLD
SUB ABORT
S4
IC146 (1/4)
MC34050M
CN10
FLD (+)
FLD (-)
IC149 (1/2)
TC74HC123AF
IC149 (2/2)
TC74HC123AF
TP10
VD
TP11
VDSNS
IC150
HD64180ZRFS10
X5
18.432MHz
IC151
MAX202CSE
CN9
TXD0
RXD0
TXD1
RXD1
SUB232C
CN18
GND
FLDCNT
FIELD
VDSNS
VD
IC154
TC74ACT541FS
IC155
TC74ACT541FS
IC156
TC74VHC245FS
SSMRD
SSMWR
SSMIOE
SSMME

3-114 (b)

A B C D E F G H

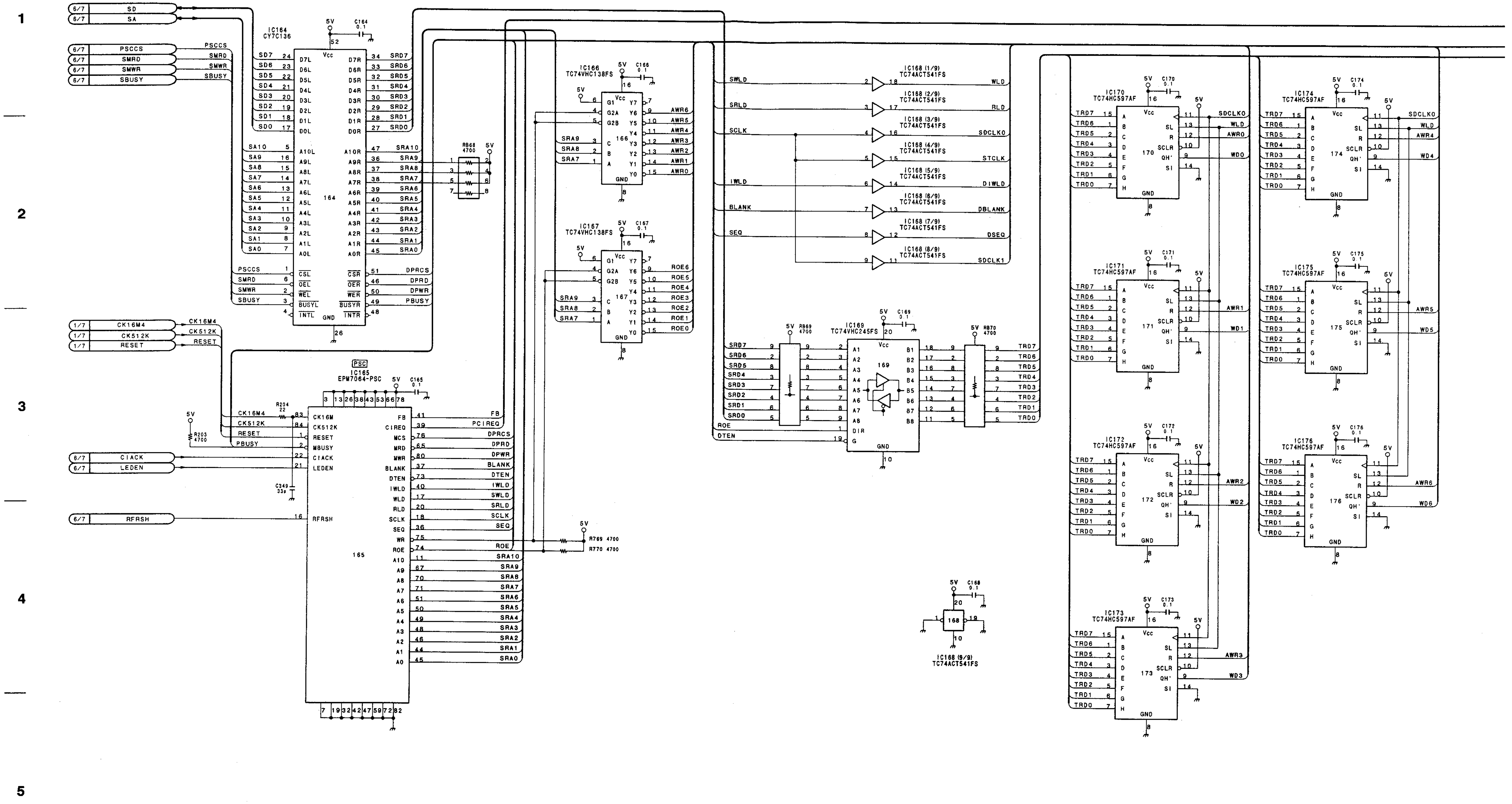
BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR


SUBDEC
IC157
EPM7032-SUBDEC
PSCCS 7/7
MCRTCCS 4/7
SCRTCCS 4/7
SMRD 7/7
SMWR 7/7
IORD 4/7
IOWR 4/7
JOY STICK
CN11
POS-X
POS-Y
POS-Z
GND
R865 100
D29 1SS226
D30 1SS226
D31 1SS226
IC159
µPD7004C
R866 4700
IC160
CX10950
IC162 TC74VHC540FS
IC163 TC74VHC540FS
D101 LA-301VB
SUB
D111 LA-301VB
TP12
TP13
RFRSH 7/7
CIACK 7/7
R867 10k
S5
SW-SUB
FB 7/7
LEDEN 7/7
IC148 (2/4) MC34050M
IC148 (3/4) MC34050M
IC148 (4/4) MC34050M
IC161 (3/4) TC74VHC00FS
IC161 (4/4) TC74VHC00FS
IC161 (1/4) TC74VHC00FS
IC161 (2/4) TC74VHC00FS
BZ1
D33 RD5.1M
1
2
3
4
5
I
J
K
L
M
N
O
P

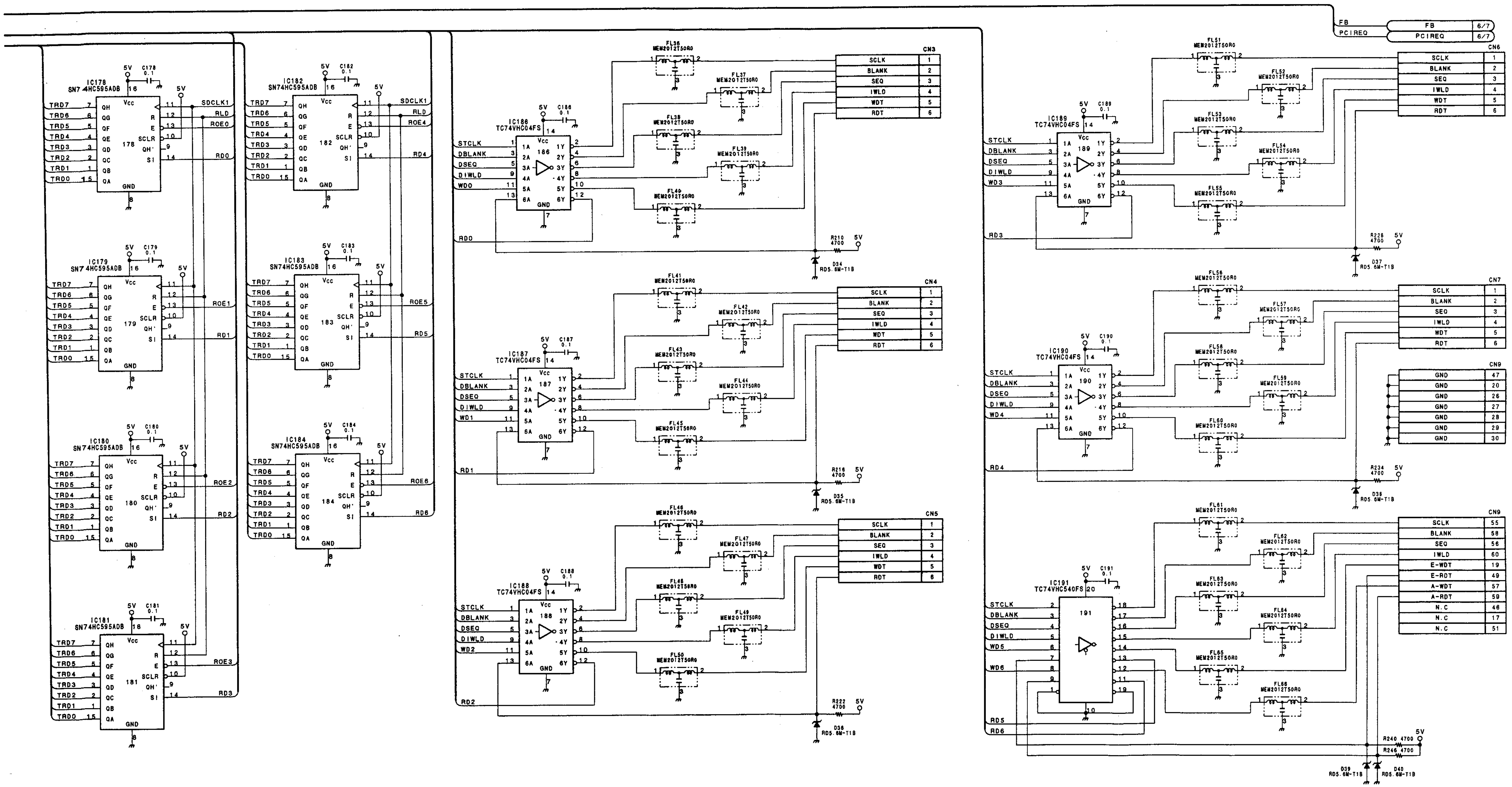
System Control Board
CPU-191 (6/7)
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-VSJXA078-CPU191

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

BKDS-7011/7021/7022	**(SY) : S/N 10016 and Higher**
BKDS-7012/7023	**(SY) : S/N 10001 and Higher**
BKDS-7011R/7012R/7021R/7022R/7023R	**(SY) : S/N 10001 and Higher**
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR	**(SY) : S/N 10001 and Higher**



1
2
3
4
5
SD
SA
PSCCS
SMRD
SMWR
SBUSY
CK16M4
CK512K
RESET
CIACK
LEDEN
RFRSH
IC164
CY7C136
IC165
EPM7064-PSC
PSC
IC166
TC74VHC138FS
IC167
TC74VHC138FS
IC168 (1/9)
TC74ACT541FS
IC168 (9/9)
TC74ACT541FS
IC169
TC74VHC245FS
IC170
TC74HC597AF
IC171
TC74HC597AF
IC172
TC74HC597AF
IC173
TC74HC597AF
IC174
TC74HC597AF
IC175
TC74HC597AF
IC176
TC74HC597AF
R868 4700
R869 4700
R870 4700
R769 4700
R770 4700
R203 4700
R204 22
C349 33p
5V
SWLD
SRLD
SCLK
IWLD
BLANK
SEQ
WLD
RLD
SDCLK0
STCLK
DIWLD
DBLANK
DSEQ
SDCLK1
ROE
DTEN
AWR1
AWR2
AWR3
AWR4
AWR5
AWR6
WD0
WD1
WD2
WD3
WD4
WD5
WD6


IC178 SN74HC595ADB
IC179 SN74HC595ADB
IC180 SN74HC595ADB
IC181 SN74HC595ADB
IC182 SN74HC595ADB
IC183 SN74HC595ADB
IC184 SN74HC595ADB
IC186 TC74VHC04FS
IC187 TC74VHC04FS
IC188 TC74VHC04FS
IC189 TC74VHC04FS
IC190 TC74VHC04FS
IC191 TC74VHC540FS
TRD7
TRD6
TRD5
TRD4
TRD3
TRD2
TRD1
TRD0
SDCLK1
RLD
ROE0
ROE1
ROE2
ROE3
ROE4
ROE5
ROE6
RD0
RD1
RD2
RD3
RD4
RD5
RD6
STCLK
DBLANK
DSEQ
DIWLD
WD0
WD1
WD2
WD3
WD4
WD5
WD6
MEM2012T50R0
CN3
CN4
CN5
CN6
CN7
CN8
CN9
SCLK
BLANK
SEQ
IWLD
WDT
RDT
GND
E-WDT
E-RDT
A-WDT
A-RDT
N.C
FB
PCIREQ
6/7
5V
R210 4700
R216 4700
R222 4700
R228 4700
R234 4700
R240 4700
R246 4700
D34 RD5.6M-T1B
D35 RD5.6M-T1B
D36 RD5.6M-T1B
D37 RD5.6M-T1B
D38 RD5.6M-T1B
D39 RD5.6M-T1B
D40 RD5.6M-T1B
1
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5
I
J
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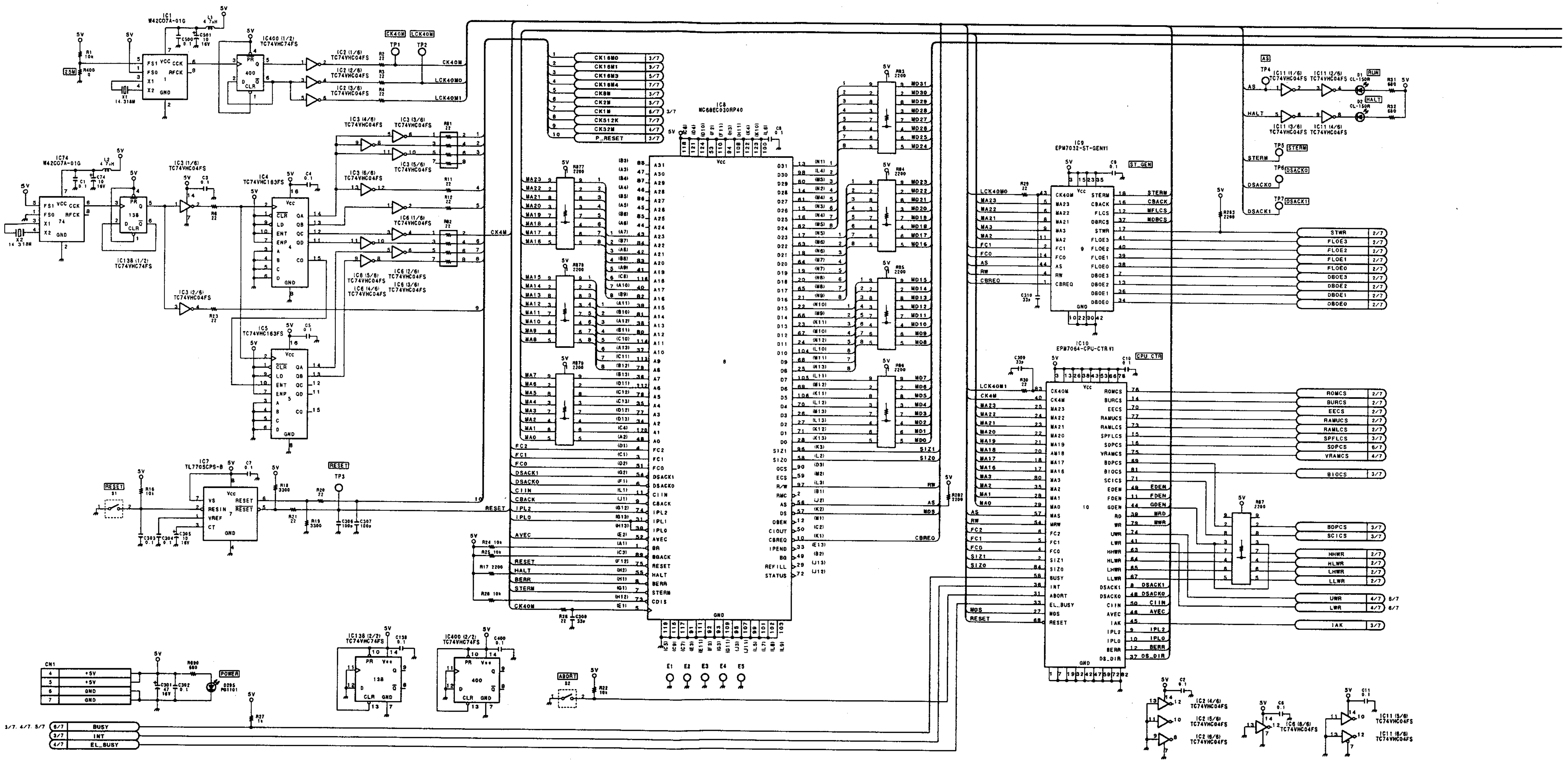
L
M
N
O
P

System Control Board
CPU-191 (7/7)
BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
BOARD NO. 1-658-271-12
BKDS-7011/7021/7022 : LOT NO. 509-
BKDS-7012 : LOT NO. 511-
BKDS-7023 : LOT NO. 509-
BKDS-70xxR/70xxLR : LOT NO. 601-
B-¥SJXA076-CPU191

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015


IC1 M42C07A-01G
IC400 (1/2) TC74VHC74FS
IC2 (1/6) TC74VHC04FS
IC2 (2/6) TC74VHC04FS
IC2 (3/6) TC74VHC04FS
TP1
TP2
CK40M
LCK40M
X1 14.318M
IC74 M42C07A-01G
X2 14.318M
IC138 (1/2) TC74VHC74FS
IC3 (1/6) TC74VHC04FS
IC3 (2/6) TC74VHC04FS
IC3 (4/6) TC74VHC04FS
IC3 (5/6) TC74VHC04FS
IC3 (6/6) TC74VHC04FS
IC4 TC74VHC163FS
IC5 TC74VHC163FS
IC6 (1/6) TC74VHC04FS
IC6 (2/6) TC74VHC04FS
IC6 (3/6) TC74VHC04FS
IC6 (4/6) TC74VHC04FS
IC6 (5/6) TC74VHC04FS
CK16M0
CK16M1
CK16M3
CK16M4
CK8M
CK2M
CK1M
CK512K
CK32M
P_RESET
IC8 MC68EC030RP40
IC7 TL7705CPS-B
RESET
TP3
S1
IC9 EPM7032-ST-GENT1
ST_GEN
IC10 EPM7064-CPU-CTRV1
CPU_CTR
AS
TP4
RUN
HALT
D1 CL-150R
D2 CL-150R
IC11 (1/6) TC74VHC04FS
IC11 (2/6) TC74VHC04FS
IC11 (3/6) TC74VHC04FS
IC11 (4/6) TC74VHC04FS
TP5 STERM
TP6 DSACK0
TP7 DSACK1
STWR
FLOE3
FLOE2
FLOE1
FLOE0
DBOE3
DBOE2
DBOE1
DBOE0
ROMCS
BURCS
EECS
RAMUCS
RAMLCS
SPFLCS
SDPCS
VRAMCS
BIOCS
BDPCS
SCICS
HHWR
HLWR
LHWR
LLWR
UWR
LWR
IAK
IC138 (2/2) TC74VHC74FS
IC400 (2/2) TC74VHC74FS
CN1
+5V
+5V
GND
GND
POWER
D295 PG1101
ABORT
S2
E1
E2
E3
E4
E5
BUSY
INT
EL_BUSY
IC2 (4/6) TC74VHC04FS
IC2 (5/6) TC74VHC04FS
IC2 (6/6) TC74VHC04FS
IC6 (6/6) TC74VHC04FS
IC11 (5/6) TC74VHC04FS
IC11 (6/6) TC74VHC04FS
1
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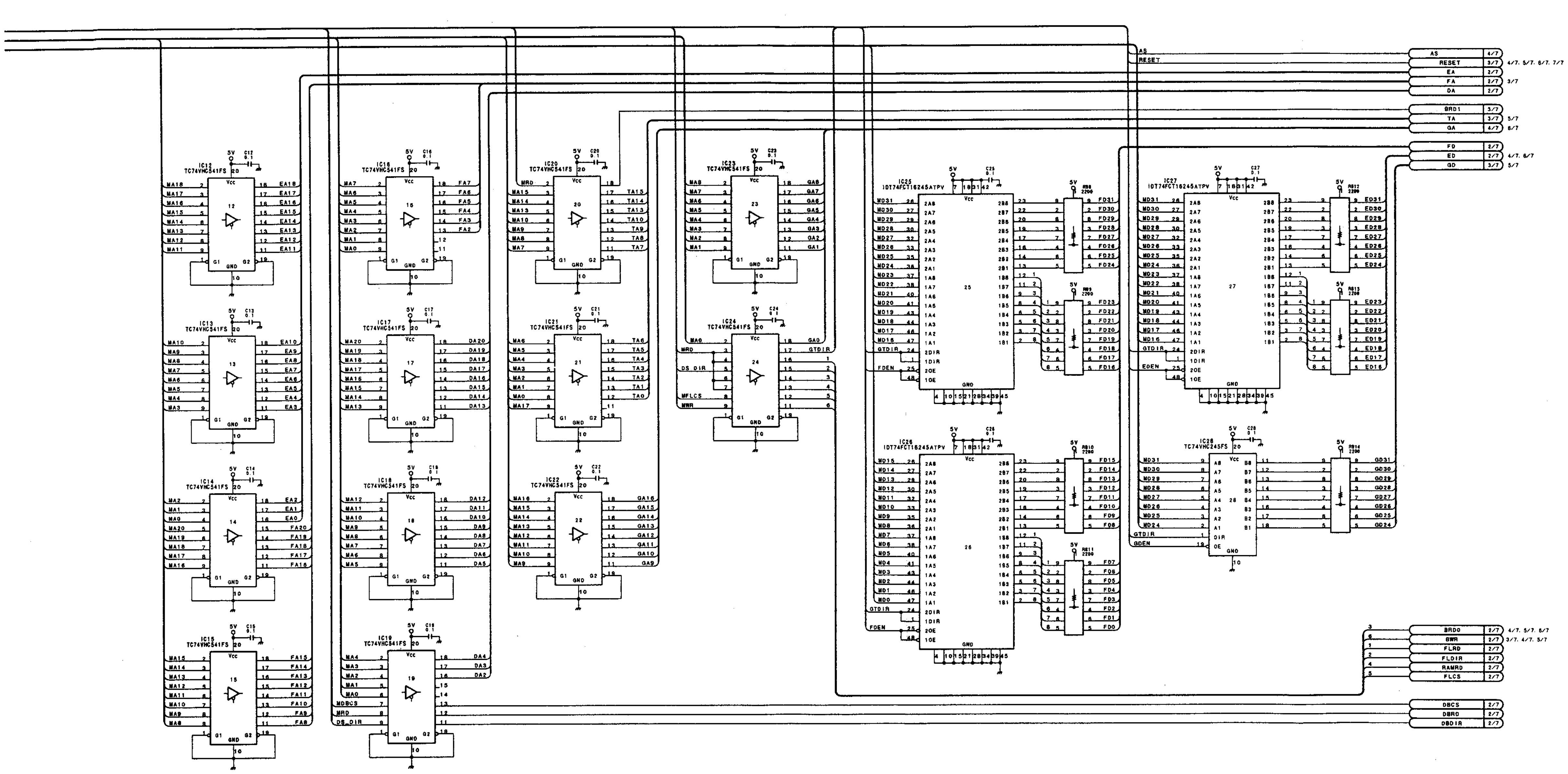
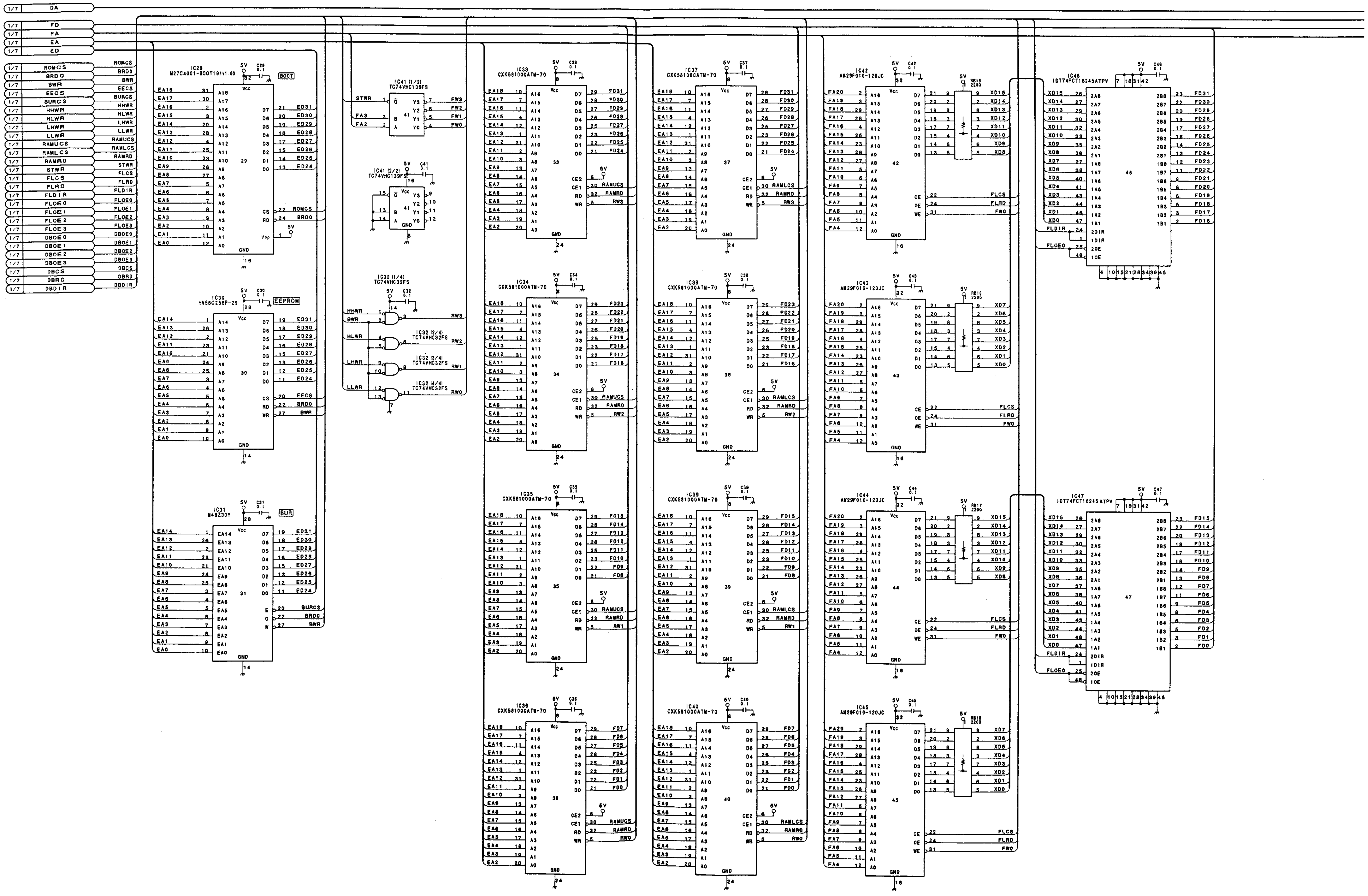
A
B
C
D
E
F
G
H


IC12 TC74VHC541FS
IC13 TC74VHC541FS
IC14 TC74VHC541FS
IC15 TC74VHC541FS
IC16 TC74VHC541FS
IC17 TC74VHC541FS
IC18 TC74VHC541FS
IC19 TC74VHC541FS
IC20 TC74VHC541FS
IC21 TC74VHC541FS
IC22 TC74VHC541FS
IC23 TC74VHC541FS
IC24 TC74VHC541FS
IC25 IDT74FCT16245ATPV
IC26 IDT74FCT16245ATPV
IC27 IDT74FCT16245ATPV
IC28 TC74VHC245FS
5V
AS
RESET
AS 4/7
RESET 3/7 4/7. 5/7. 6/7. 7/7
EA 2/7
FA 2/7 3/7
DA 2/7
BRD1 3/7
TA 3/7 5/7
GA 4/7 6/7
FD 2/7
ED 2/7 4/7. 6/7
GD 3/7 5/7
BRD0 2/7 4/7. 5/7. 6/7
BWR 2/7 3/7. 4/7. 5/7
FLRD 2/7
FLDIR 2/7
RAMRD 2/7
FLCS 2/7
DBCS 2/7
DBRD 2/7
DBDIR 2/7
MRD
DS DIR
MFLCS
MWR
GTDIR
FDEN
EDEN
GDEN
MDBCS
GND

System Control Board
CPU-191 (1/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-WSJXA078-CPU191-11

BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015


1/7 DA
1/7 FD
1/7 FA
1/7 EA
1/7 ED
1/7 ROMCS
1/7 BRDO
1/7 BWR
1/7 EECS
1/7 BURCS
1/7 HHWR
1/7 HLWR
1/7 LHWR
1/7 LLWR
1/7 RAMUCS
1/7 RAMLCS
1/7 RAMRD
1/7 STWR
1/7 FLCS
1/7 FLRD
1/7 FLDIR
1/7 FLOE0
1/7 FLOE1
1/7 FLOE2
1/7 FLOE3
1/7 DBOE0
1/7 DBOE1
1/7 DBOE2
1/7 DBOE3
1/7 DBCS
1/7 DBRD
1/7 DBDIR
IC29 M27C4001-BOOT191V1.00
BOOT
IC30 HN58C256P-20
EEPROM
IC31 M48Z30Y
BUR
IC41 (1/2) TC74VHC139FS
IC41 (2/2) TC74VHC139FS
IC32 (1/4) TC74VHC32FS
IC32 (2/4) TC74VHC32FS
IC32 (3/4) TC74VHC32FS
IC32 (4/4) TC74VHC32FS
IC33 CXK581000ATM-70
IC34 CXK581000ATM-70
IC35 CXK581000ATM-70
IC36 CXK581000ATM-70
IC37 CXK581000ATM-70
IC38 CXK581000ATM-70
IC39 CXK581000ATM-70
IC40 CXK581000ATM-70
IC42 AM29F010-120JC
IC43 AM29F010-120JC
IC44 AM29F010-120JC
IC45 AM29F010-120JC
RB15 2200
RB16 2200
RB17 2200
RB18 2200
IC46 IDT74FCT16245ATPV
IC47 IDT74FCT16245ATPV
1
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A
B
C
D
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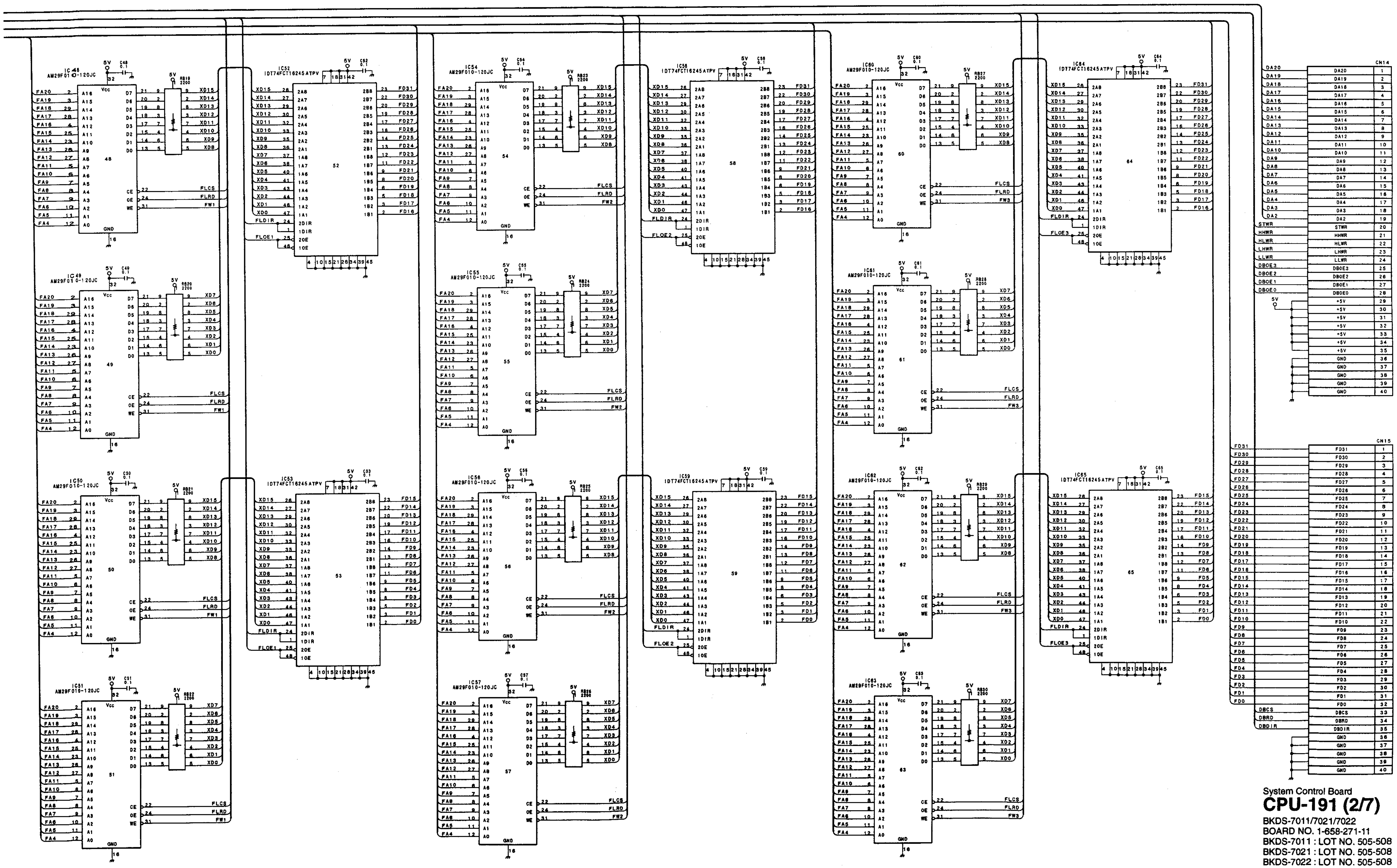
G
H

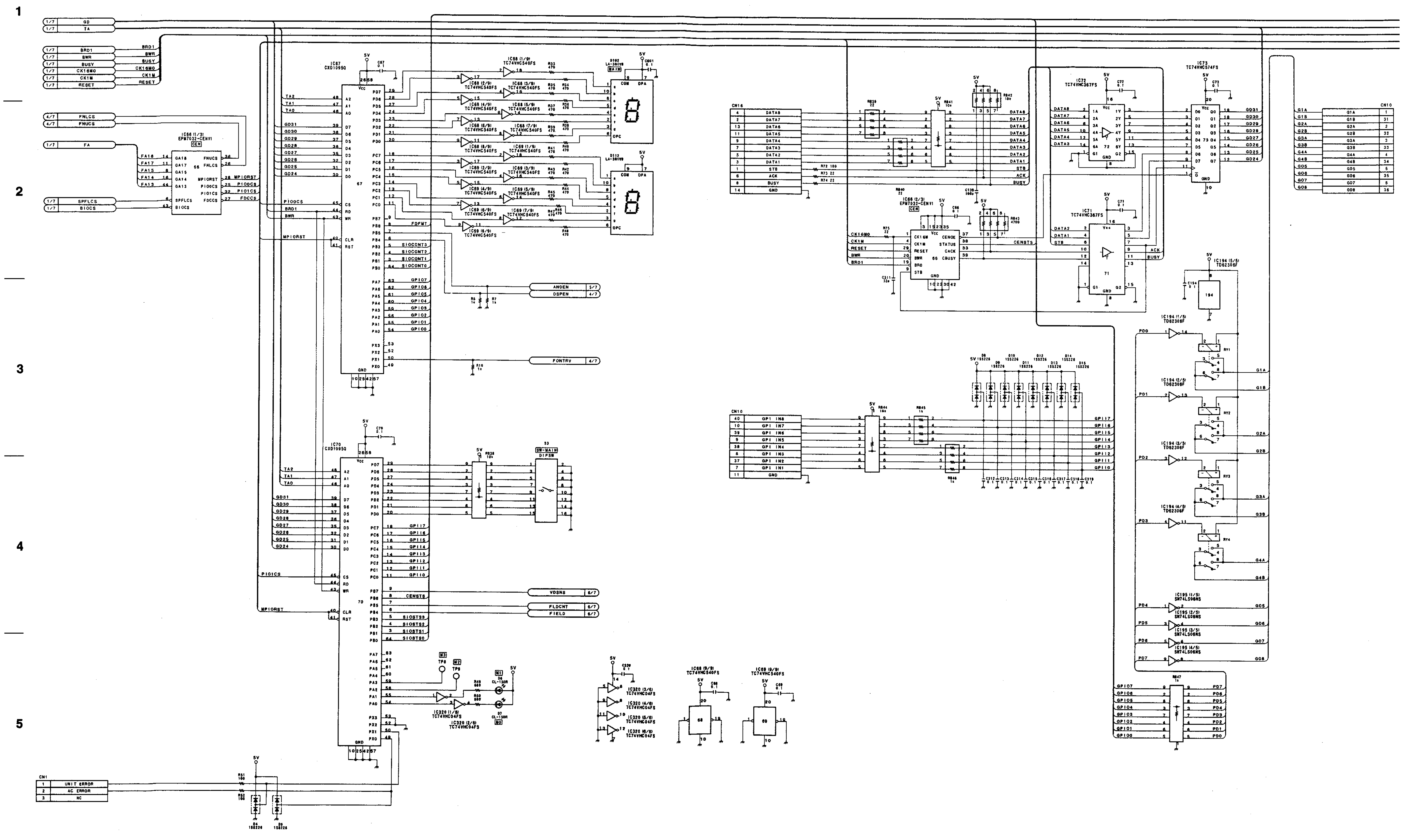
CPU-191 (2/7) System Control Board

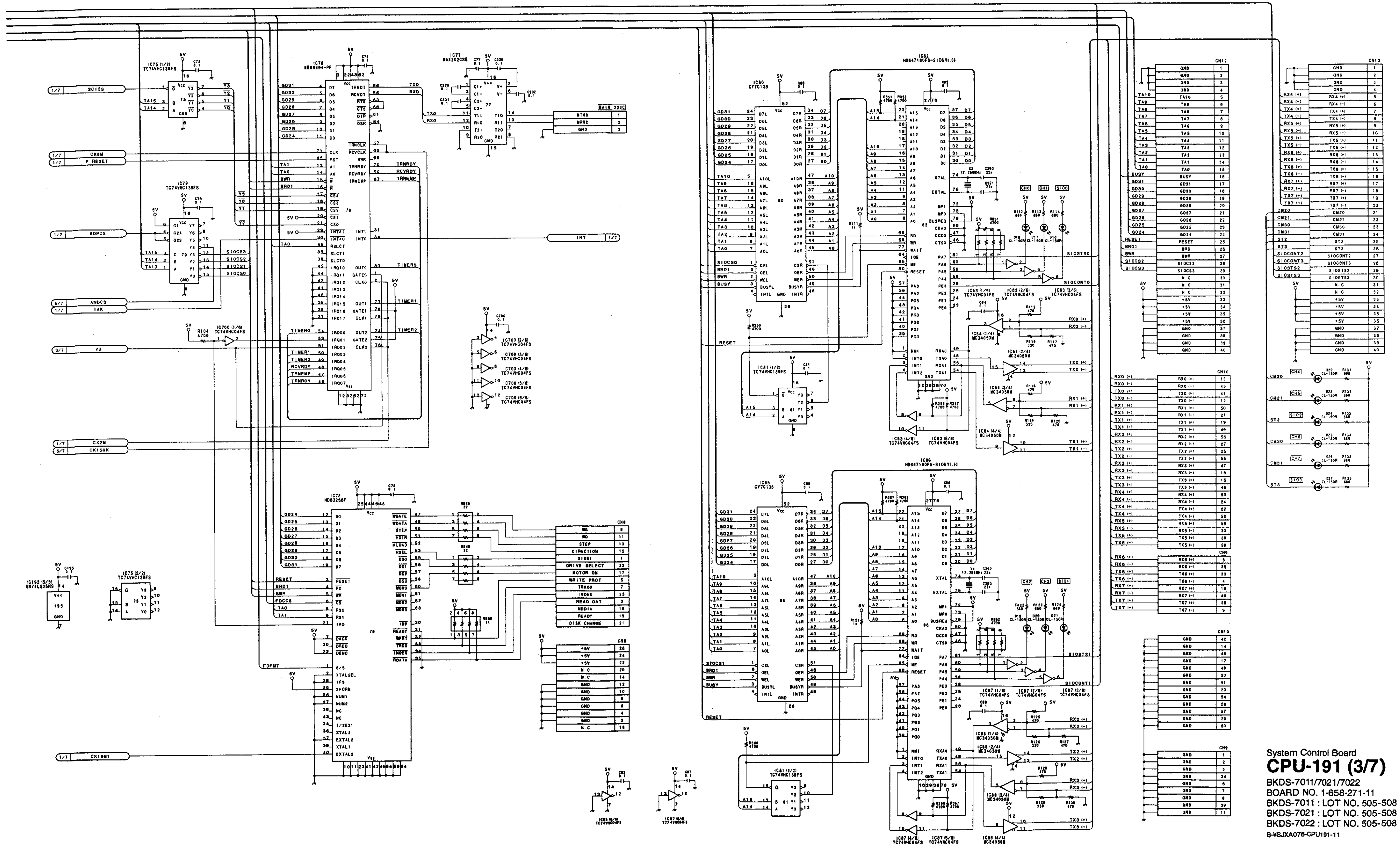

IC48 AM29F010-120JC
IC49 AM29F010-120JC
IC50 AM29F010-120JC
IC51 AM29F010-120JC
IC52 IDT74FCT16245ATPV
IC53 IDT74FCT16245ATPV
IC54 AM29F010-120JC
IC55 AM29F010-120JC
IC56 AM29F010-120JC
IC57 AM29F010-120JC
IC58 IDT74FCT16245ATPV
IC59 IDT74FCT16245ATPV
IC60 AM29F010-120JC
IC61 AM29F010-120JC
IC62 AM29F010-120JC
IC63 AM29F010-120JC
IC64 IDT74FCT16245ATPV
IC65 IDT74FCT16245ATPV
CN14
CN15
FLCS
FLRD
FW1
FW2
FW3
FLDIR
FLOE1
FLOE2
FLOE3
5V
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-191 (2/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-¥SJXA076-CPU191-11

3-107 (a)

BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015

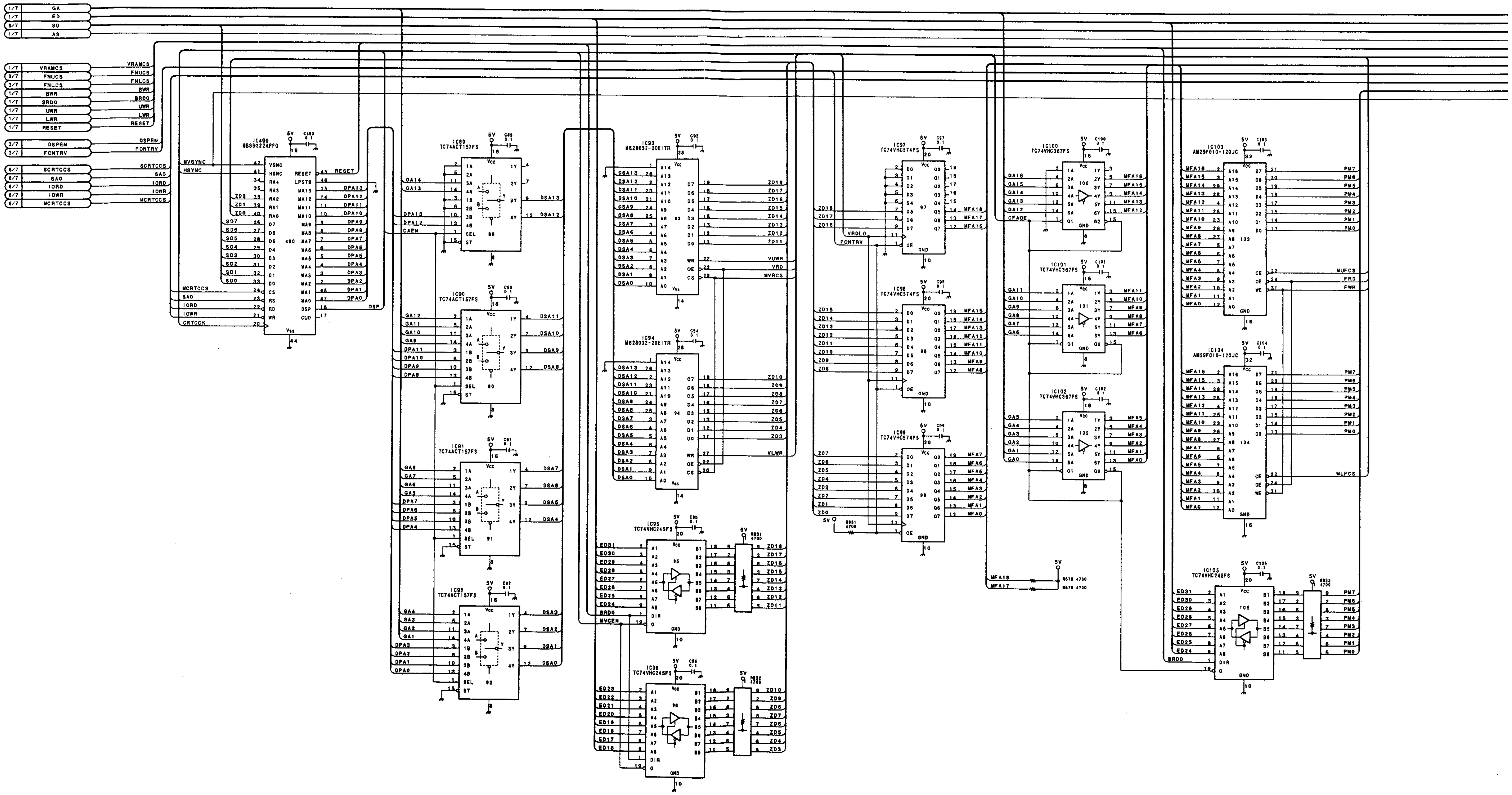

1
2
3
4
5
A
B
C
D
E
F
G
H
IC67 CXD1095Q
IC70 CXD1095Q
IC66 (1/3) EPM7032-CEN11
IC66 (2/3) EPM7032-CEN11
IC68 TC74VHC540FS
IC69 TC74VHC540FS
IC71 TC74VHC367FS
IC72 TC74VHC367FS
IC73 TC74VHC574FS
IC194 TD62306F
IC195 SN74LS06NS
IC320 TC74VHC04FS
D102 LA-301VB
D112 LA-301VB
S3 DIPSW
CN1
UNIT ERROR
AC ERROR
NC
CN16
CN10
GPI IN1
GPI IN2
GPI IN3
GPI IN4
GPI IN5
GPI IN6
GPI IN7
GPI IN8
DATA1
DATA2
DATA3
DATA4
DATA5
DATA6
DATA7
DATA8
STB
ACK
BUSY
GND
ANDEN
DSPEN
FONTRV
VDSNS
FLDCNT
FIELD
TP8
TP9
RY1
RY2
RY3
RY4
5V


IC75 (1/2) TC74VHC139FS
IC79 TC74VHC138FS
IC76 MB89394-PF
IC77 MAX202CSE
MAIN 232C
MTXD
MRXD
GND
IC700 (1/6) TC74VHC04FS
IC78 HD63266F
CN8
CN6
IC195 (5/5) SN74LS06NS
IC75 (2/2) TC74VHC139FS
IC80 CY7C136
IC82 HD647180FS-SI06 V1.00
IC81 (1/2) TC74VHC139FS
IC85 CY7C136
IC86 HD647180FS-SI06 V1.00
IC81 (2/2) TC74VHC139FS
IC83 TC74VHC04FS
IC84 MC34050M
IC87 TC74VHC04FS
IC88 MC34050M
CN12
CN13
CN10
CN9
SCICS
CK8M
P_RESET
BDPCS
ANDCS
IAK
VD
CK2M
CK150K
CK16M1
INT
SIOSTS0
SIOCONT0
SIOSTS1
SIOCONT1
RESET
WG
WD
STEP
DIRECTION
SIDE1
DRIVE SELECT
MOTOR ON
WRITE PROT
TRK00
INDEX
READ DAT
MEDIA
READY
DISK CHANGE

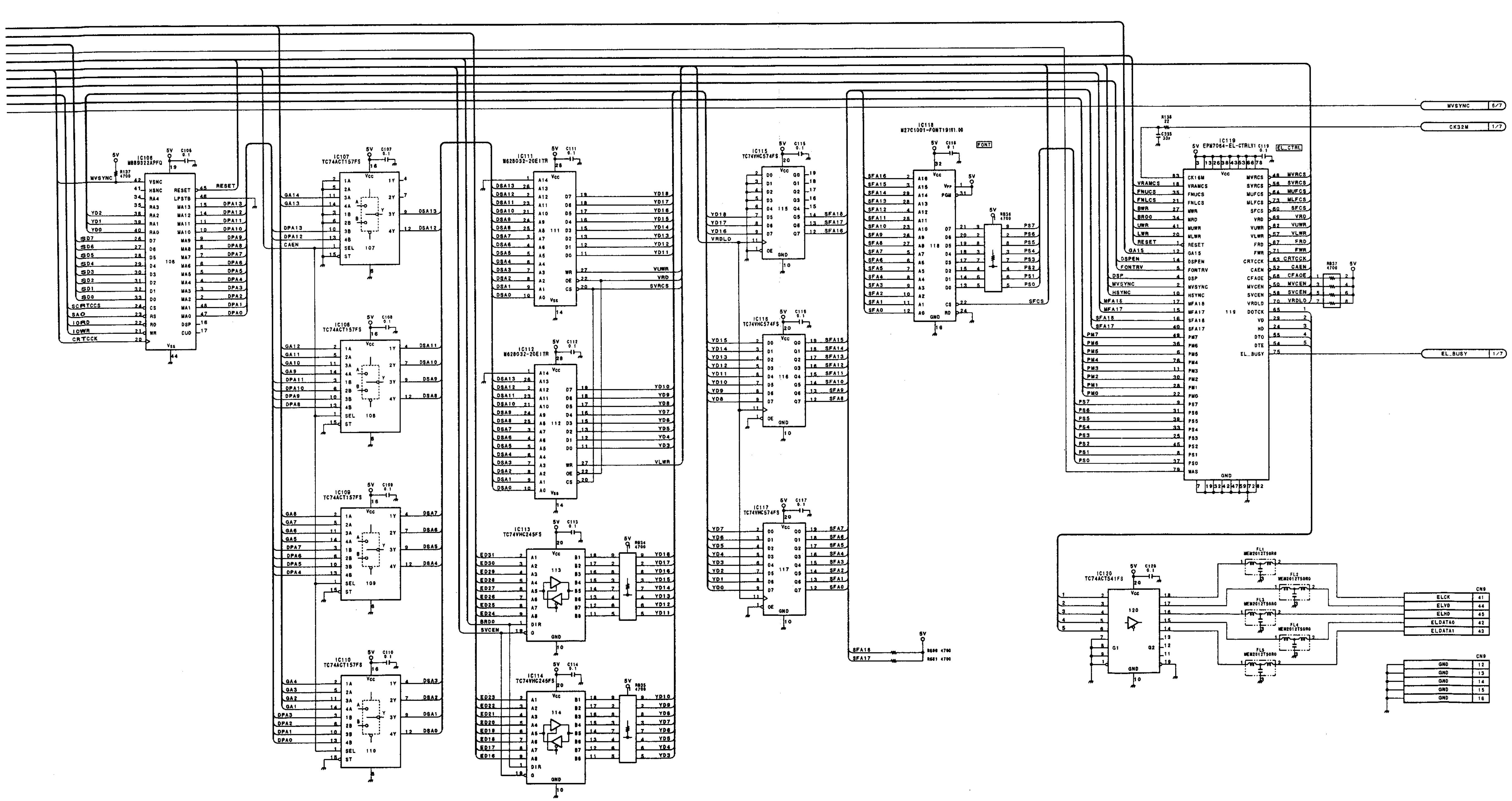
System Control Board
CPU-191 (3/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-VSJXA076-CPU191-11

CPU-191 (4/7) System Control Board

BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015

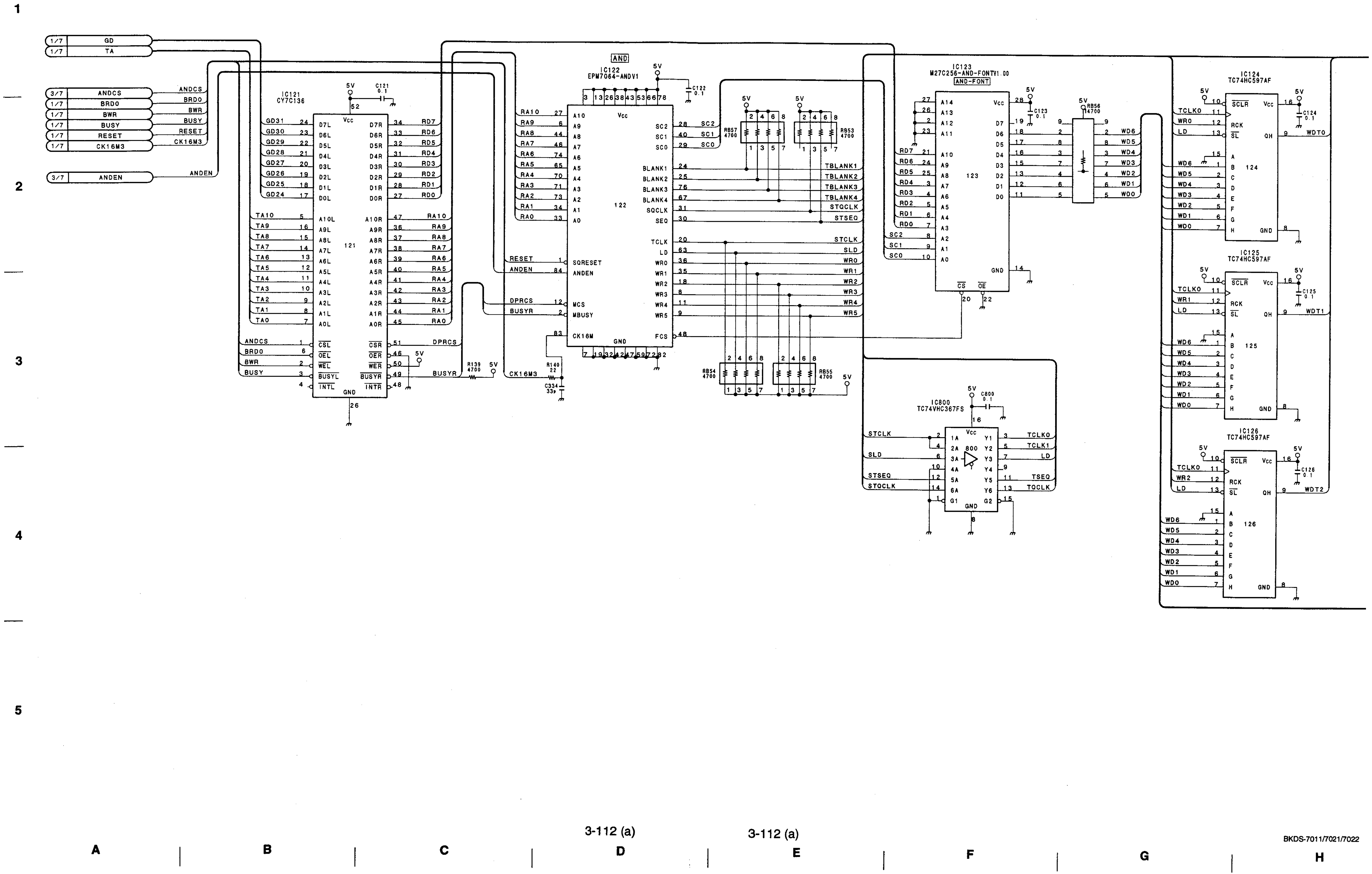

GA
ED
SD
AS
VRAMCS
FNUCS
FNLCS
BWR
BRDO
UWR
LWR
RESET
DSPEN
FONTRV
SCRTCCS
SA0
IORD
IOWR
MCRTCCS
IC490 MB89322APFQ
IC89 TC74ACT157FS
IC90 TC74ACT157FS
IC91 TC74ACT157FS
IC92 TC74ACT157FS
IC93 M628032-20EITR
IC94 M628032-20EITR
IC95 TC74VHC245FS
IC96 TC74VHC245FS
IC97 TC74VHC574FS
IC98 TC74VHC574FS
IC99 TC74VHC574FS
IC100 TC74VHC367FS
IC101 TC74VHC367FS
IC102 TC74VHC367FS
IC103 AM29F010-120JC
IC104 AM29F010-120JC
IC105 TC74VHC245FS
RB31 4700
RB32 4700
RB33 4700
RB51 4700
R578 4700
R579 4700
VUWR
VRD
MVRCS
VLWR
VRDLD
MLFCS
MUFCS
FRD
FWR
MVCEN
CFAOE
MFA18
MFA17
5V

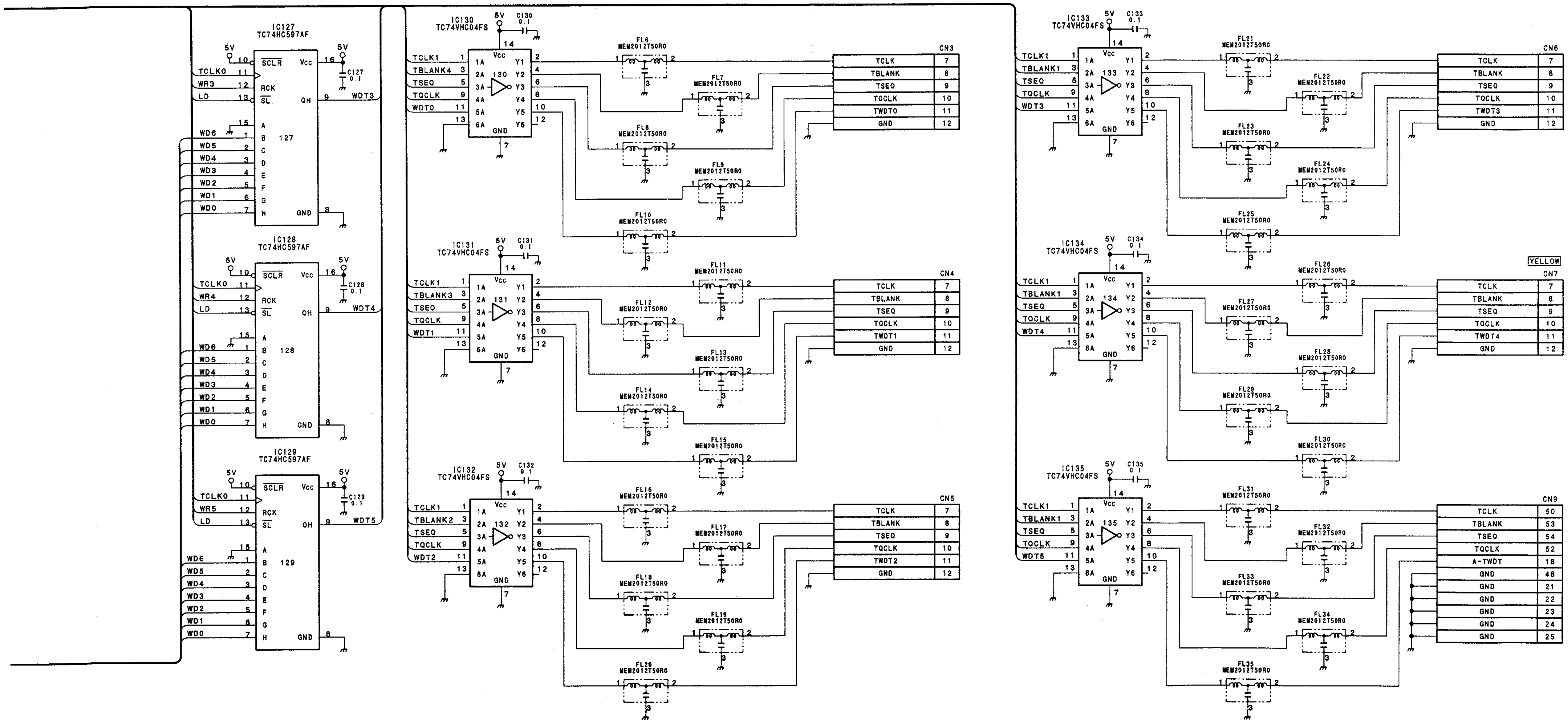
3-110 (a)


IC106 MB89322APFQ
R137 4700
C106 0.1
5V
MVSYNC
RESET
IC107 TC74ACT157FS
C107 0.1
IC108 TC74ACT157FS
C108 0.1
IC109 TC74ACT157FS
C109 0.1
IC110 TC74ACT157FS
C110 0.1
IC111 M628032-20E1TR
C111 0.1
IC112 M628032-20E1TR
C112 0.1
IC113 TC74VHC245FS
C113 0.1
RB34 4700
IC114 TC74VHC245FS
C114 0.1
RB35 4700
IC115 TC74VHC574FS
C115 0.1
IC116 TC74VHC574FS
C116 0.1
IC117 TC74VHC574FS
C117 0.1
IC118 M27C1001-FONT191V1.00
C118 0.1
FONT
RB36 4700
R138 22
C333 33p
IC119 EPM7064-EL-CTRLV1
C119 0.1
EL_CTRL
RB37 4700
IC120 TC74ACT541FS
C120 0.1
FL1 MEM2012T50R0
FL2 MEM2012T50R0
FL3 MEM2012T50R0
FL4 MEM2012T50R0
FL5 MEM2012T50R0
MVSYNC 5/7
CK32M 1/7
EL_BUSY 1/7
CN9
ELCK 41
ELVD 44
ELHD 45
ELDATA0 42
ELDATA1 43
GND 12
GND 13
GND 14
GND 15
GND 16

System Control Board
CPU-191 (4/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-VSJXA076-CPU191-11

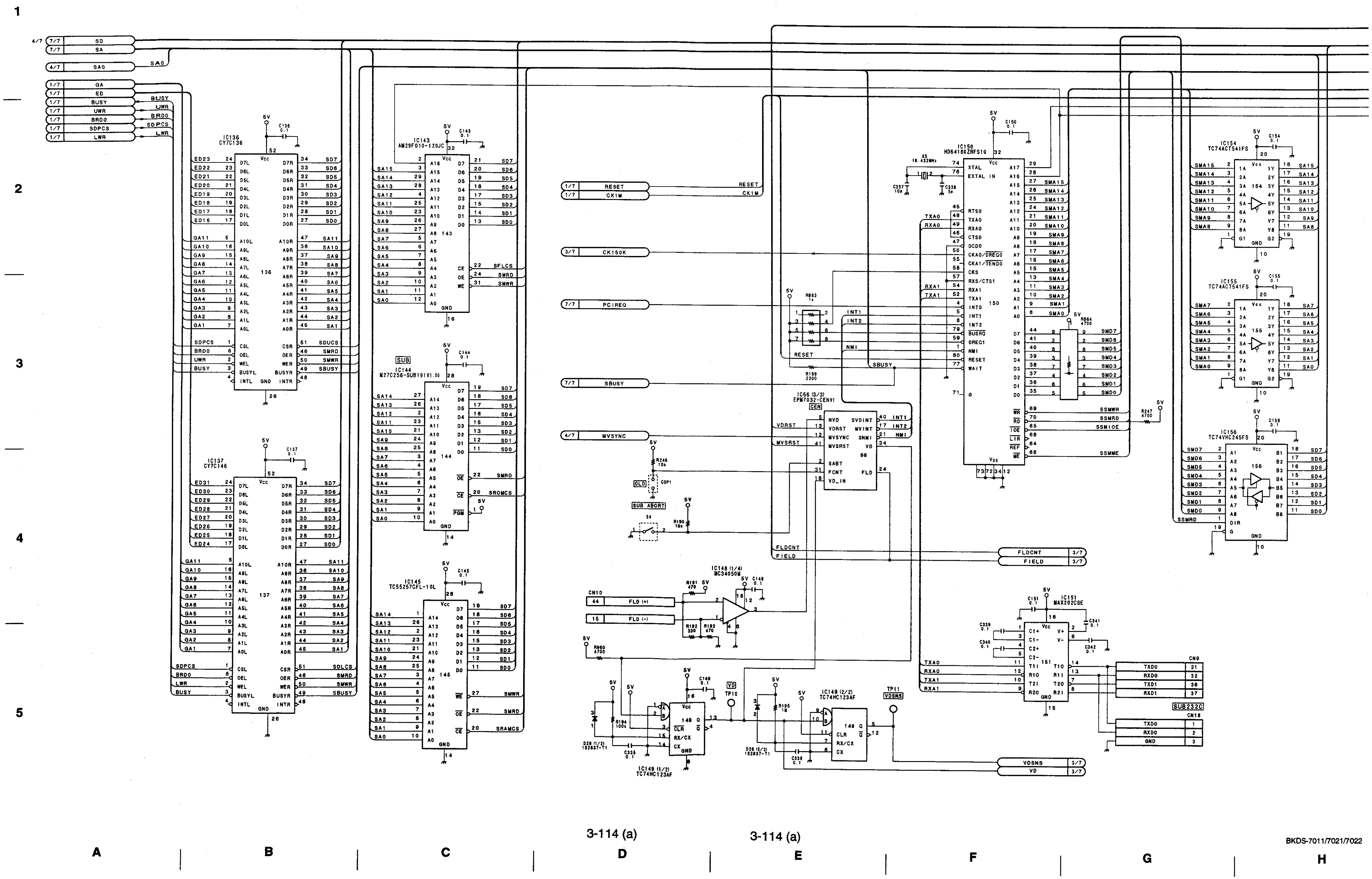
BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015

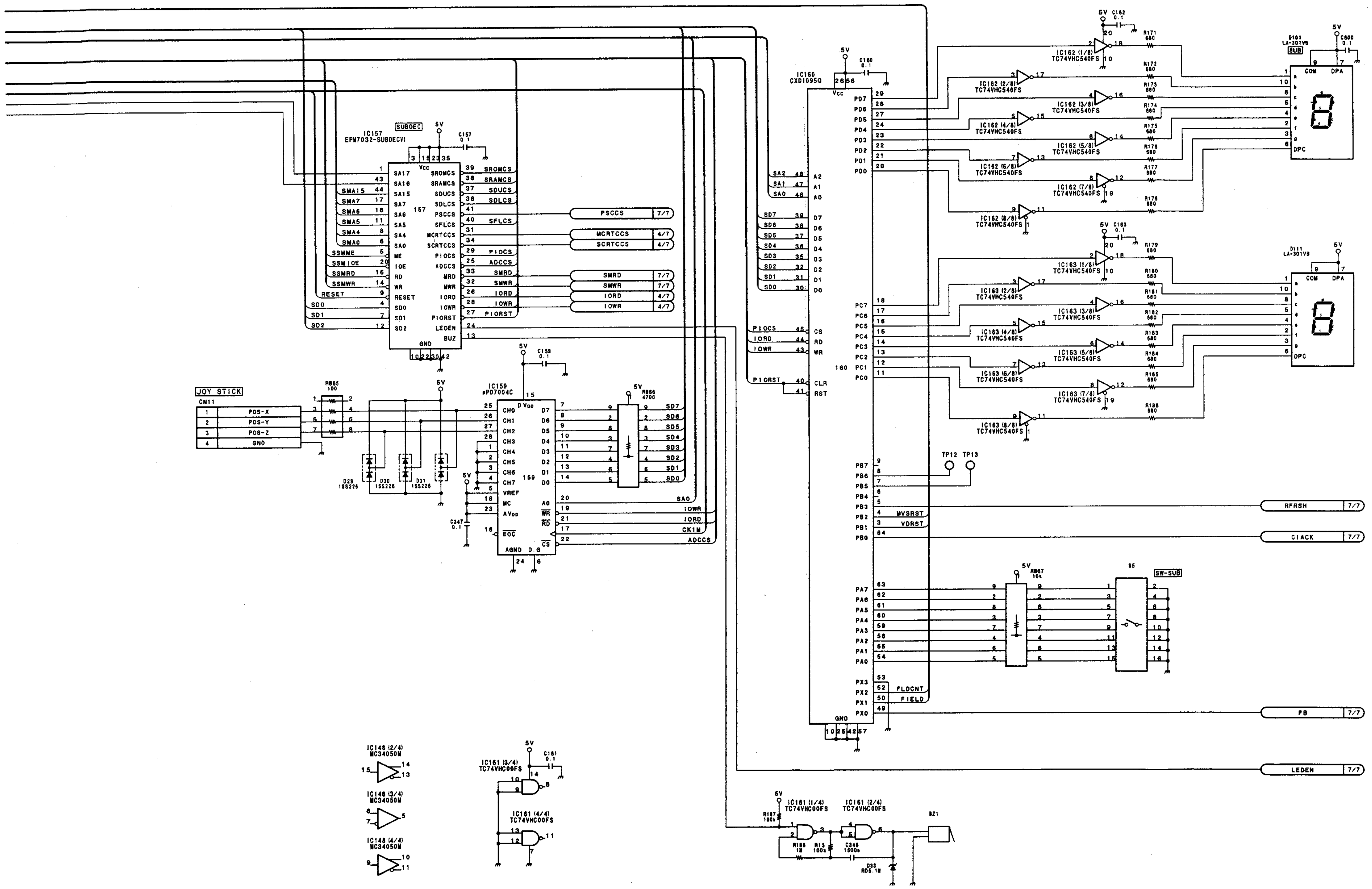

1
2
3
4
5
A
B
C
D
E
F
G
H
1/7 GD
1/7 TA
3/7 ANDCS
1/7 BRDO
1/7 BWR
1/7 BUSY
1/7 RESET
1/7 CK16M3
3/7 ANDEN
IC121
CY7C136
121
5V
C121 0.1
IC122
EPM7064-ANDV1
AND
122
C122 0.1
RB57 4700
RB53 4700
RB54 4700
RB55 4700
RB56 4700
R139 4700
R140 22
C334 33p
IC123
M27C256-AND-FONTV1.00
AND-FONT
123
C123 0.1
IC800
TC74VHC367FS
800
C800 0.1
IC124
TC74HC597AF
124
C124 0.1
IC125
TC74HC597AF
125
C125 0.1
IC126
TC74HC597AF
126
C126 0.1
TBLANK1
TBLANK2
TBLANK3
TBLANK4
STQCLK
STSEQ
STCLK
SLD
WR0
WR1
WR2
WR3
WR4
WR5
DPRCS
BUSYR
TCLK0
TCLK1
LD
TSEQ
TQCLK
WDT0
WDT1
WDT2


IC127
TC74HC597AF
IC128
TC74HC597AF
IC129
TC74HC597AF
SCLR
RCK
SL
QH
Vcc
GND
5V
C127 0.1
C128 0.1
C129 0.1
TCLK0
WR3
WR4
WR5
LD
WD6
WD5
WD4
WD3
WD2
WD1
WD0
WDT3
WDT4
WDT5
IC130
TC74VHC04FS
IC131
TC74VHC04FS
IC132
TC74VHC04FS
IC133
TC74VHC04FS
IC134
TC74VHC04FS
IC135
TC74VHC04FS
C130 0.1
C131 0.1
C132 0.1
C133 0.1
C134 0.1
C135 0.1
TCLK1
TBLANK4
TBLANK3
TBLANK2
TBLANK1
TSEQ
TQCLK
WDT0
WDT1
WDT2
MEM2012T50R0
FL6
FL7
FL8
FL9
FL10
FL11
FL12
FL13
FL14
FL15
FL16
FL17
FL18
FL19
FL20
FL21
FL22
FL23
FL24
FL25
FL26
FL27
FL28
FL29
FL30
FL31
FL32
FL33
FL34
FL35
CN3
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT0 11
GND 12
CN4
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT1 11
GND 12
CN5
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT2 11
GND 12
CN6
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT3 11
GND 12
YELLOW
CN7
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT4 11
GND 12
CN9
TCLK 50
TBLANK 53
TSEQ 54
TQCLK 52
A-TWDT 18
GND 48
GND 21
GND 22
GND 23
GND 24
GND 25
1
2
3
4
5

System Control Board
CPU-191 (5/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-¥SJXA076-CPU191-11

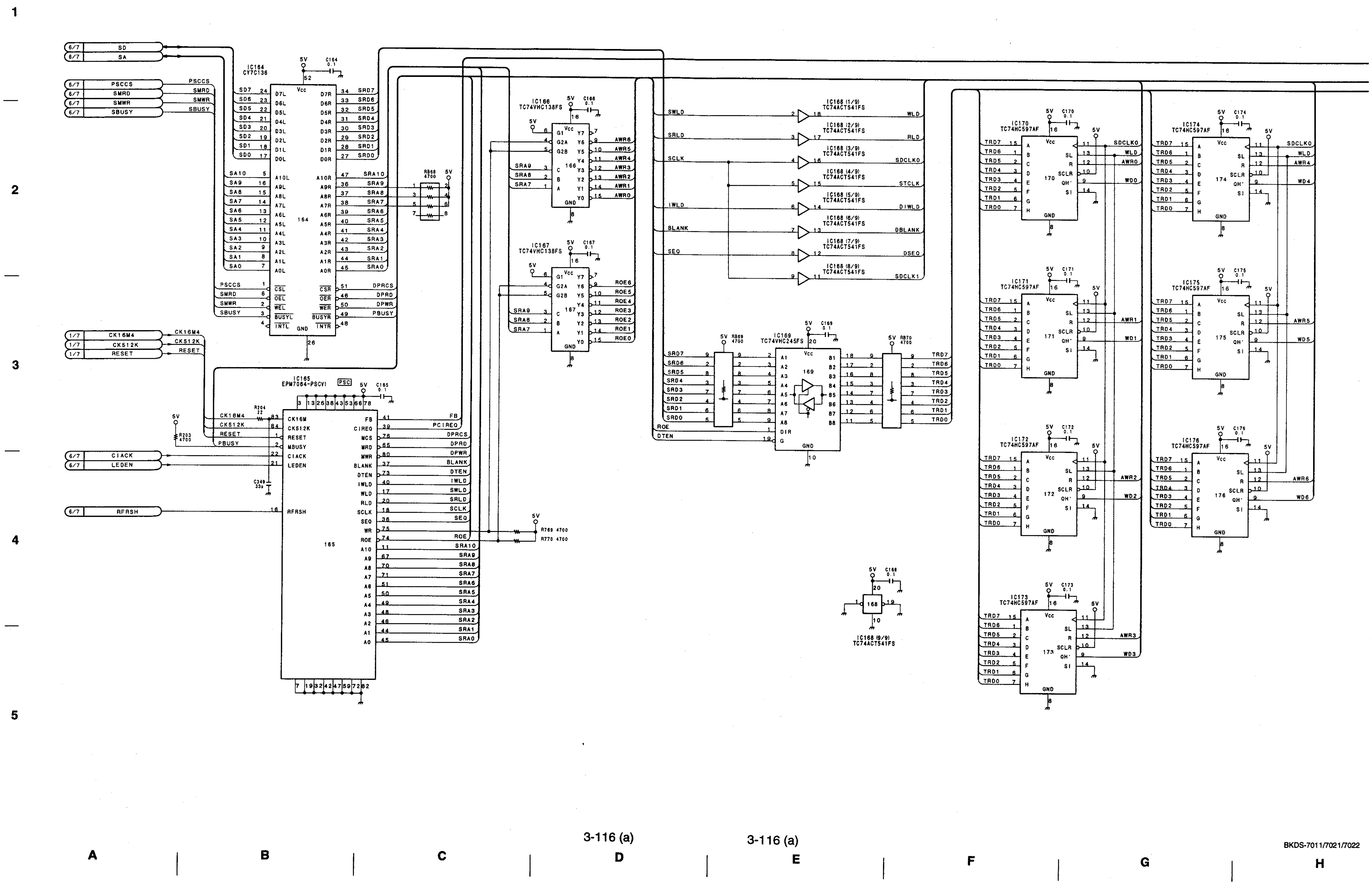
BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015

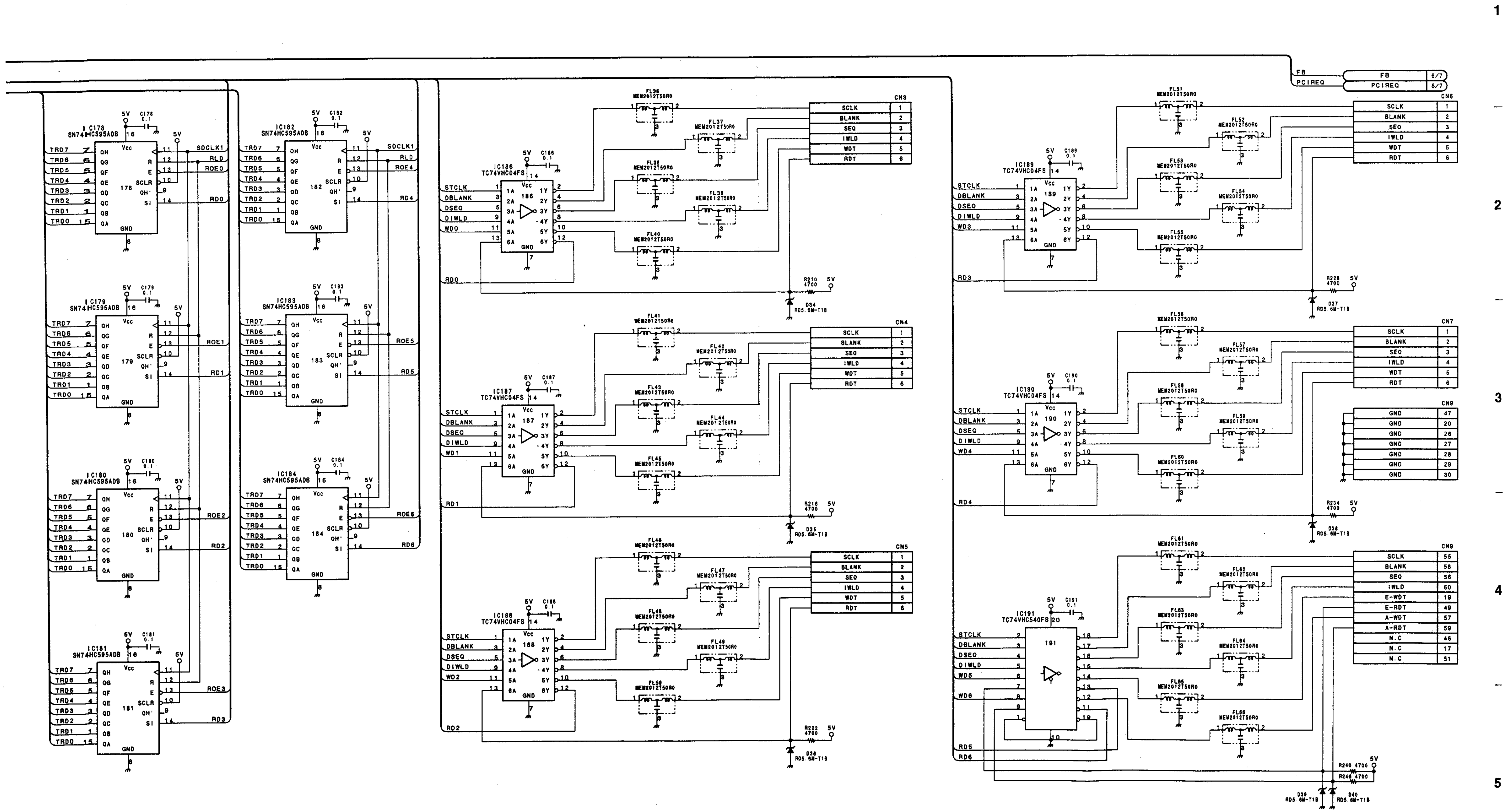

1
2
3
4
5
A
B
C
D
E
F
G
H
SD
SA
SA0
GA
ED
BUSY
UWR
BRD0
SDPCS
LWR
IC136
CY7C136
IC137
CY7C146
IC143
AM29F010-120JC
SUB
IC144
M27C256-SUB191V1.00
IC145
TC55257CFL-10L
RESET
CK1M
CK150K
PCIREQ
SBUSY
MVSYNC
IC56 (3/3)
EPM7032-CENV1
CEN
GLD
SUB ABORT
S4
IC148 (1/4)
MC34050M
CN10
FLD (+)
FLD (-)
IC149 (1/2)
TC74HC123AF
IC149 (2/2)
TC74HC123AF
VD
TP10
TP11
VDSNS
D28 (1/2)
1SS837-T1
D26 (2/2)
1SS837-T1
X5
18.432MHz
IC150
HD64180ZRFS10
IC151
MAX202CSE
CN9
TXD0
RXD0
TXD1
RXD1
SUB232C
CN18
GND
IC154
TC74ACT541FS
IC155
TC74ACT541FS
IC156
TC74VHC245FS
FLDCNT
FIELD
SSMWR
SSMRD
SSMIOE
SSMME
1/7
3/7
4/7
7/7
5V


IC157
EPM7032-SUBDECV1
SUBDEC
IC160
CXD1095Q
IC159
μPD7004C
JOY STICK
CN11
POS-X
POS-Y
POS-Z
GND
R865
100
D29 1SS226
D30 1SS226
D31 1SS226
C347 0.1
R866 4700
C157 0.1
C159 0.1
C160 0.1
IC162 TC74VHC540FS
IC163 TC74VHC540FS
D101 LA-301VB
D111 LA-301VB
SUB
COM
DPA
DPC
PSCCS
MCRTCCS
SCRTCCS
SMRD
SMWR
IORD
IOWR
7/7
4/7
PIOCS
PIORST
SAO
CK1M
ADCCS
TP12
TP13
MVSRST
VDRST
RFRSH
CIACK
R867 10k
S5
SW-SUB
FLDCNT
FIELD
FB
LEDEN
IC148 (2/4) MC34050M
IC148 (3/4) MC34050M
IC148 (4/4) MC34050M
IC161 (3/4) TC74VHC00FS
IC161 (4/4) TC74VHC00FS
IC161 (1/4) TC74VHC00FS
IC161 (2/4) TC74VHC00FS
C161 0.1
R187 100k
R188 1M
R13 100k
C348 1500p
D33 RD5.1E
BZ1
5V

System Control Board
CPU-191 (6/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-¥SJXA076-CPU191-11

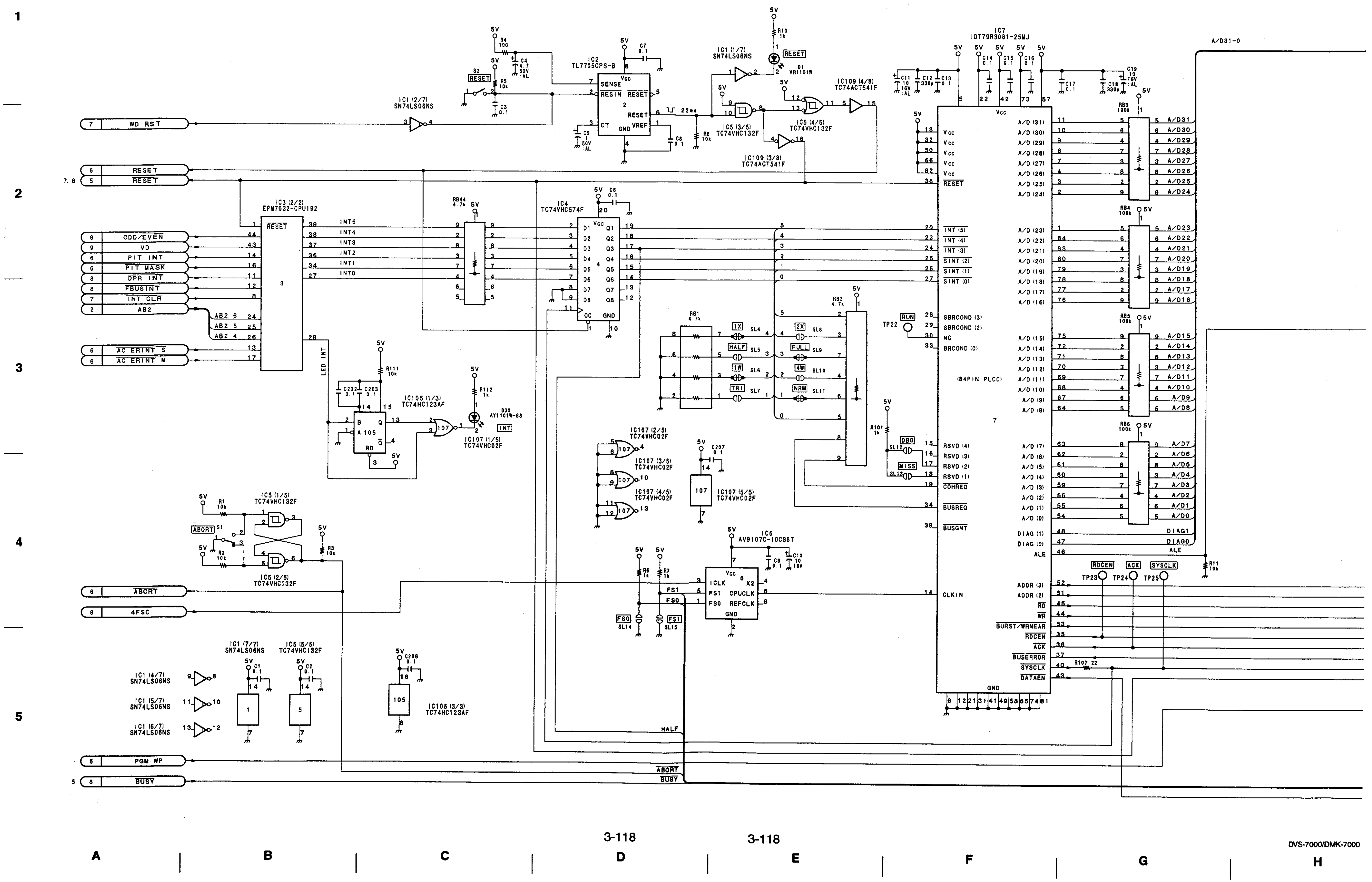
BKDS-7011 (SY) : S/N 10001 through 10015
BKDS-7021 (SY) : S/N 10001 through 10015
BKDS-7022 (SY) : S/N 10001 through 10015

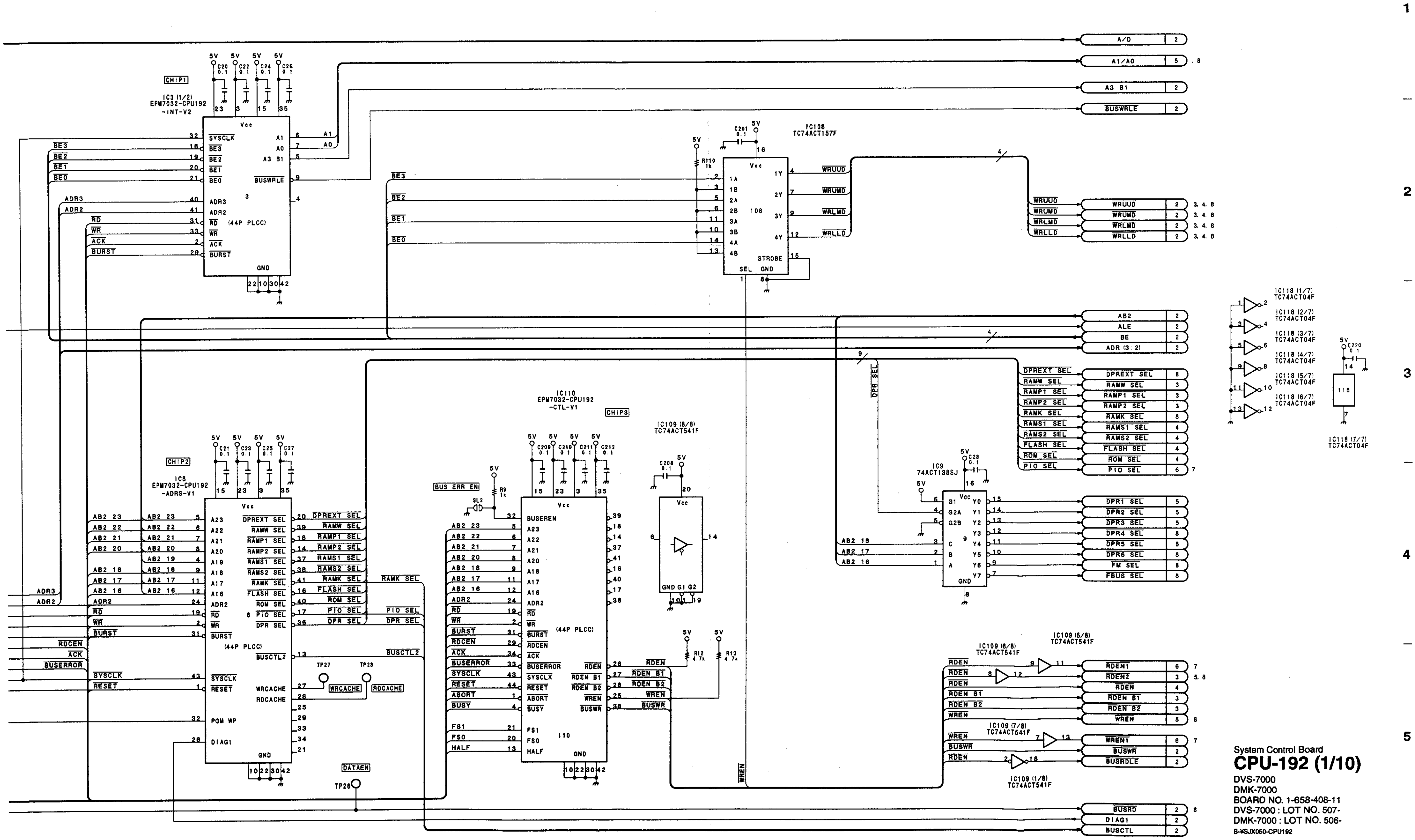

1
2
3
4
5
A
B
C
D
E
F
G
H
6/7 SD
6/7 SA
6/7 PSCCS
6/7 SMRD
6/7 SMWR
6/7 SBUSY
1/7 CK16M4
1/7 CK512K
1/7 RESET
6/7 CIACK
6/7 LEDEN
6/7 RFRSH
IC164 CY7C136
164
IC165 EPM7064-PSCV1
PSC
165
R203 4700
R204 22
C249 33p
C164 0.1
C165 0.1
R868 4700
IC166 TC74VHC138FS
166
IC167 TC74VHC138FS
167
R769 4700
R770 4700
IC168 (1/9) TC74ACT541FS
IC168 (2/9) TC74ACT541FS
IC168 (3/9) TC74ACT541FS
IC168 (4/9) TC74ACT541FS
IC168 (5/9) TC74ACT541FS
IC168 (6/9) TC74ACT541FS
IC168 (7/9) TC74ACT541FS
IC168 (8/9) TC74ACT541FS
IC168 (9/9) TC74ACT541FS
168
IC169 TC74VHC245FS
169
R869 4700
R870 4700
IC170 TC74HC597AF
IC171 TC74HC597AF
IC172 TC74HC597AF
IC173 TC74HC597AF
IC174 TC74HC597AF
IC175 TC74HC597AF
IC176 TC74HC597AF
5V
Vcc
GND


IC178 SN74HC595ADB
IC179 SN74HC595ADB
IC180 SN74HC595ADB
IC181 SN74HC595ADB
IC182 SN74HC595ADB
IC183 SN74HC595ADB
IC184 SN74HC595ADB
IC186 TC74VHC04FS
IC187 TC74VHC04FS
IC188 TC74VHC04FS
IC189 TC74VHC04FS
IC190 TC74VHC04FS
IC191 TC74VHC540FS
TRD7
TRD6
TRD5
TRD4
TRD3
TRD2
TRD1
TRD0
SDCLK1
RLD
ROE0
ROE1
ROE2
ROE3
ROE4
ROE5
ROE6
RD0
RD1
RD2
RD3
RD4
RD5
RD6
STCLK
DBLANK
DSEQ
DIWLD
WD0
WD1
WD2
WD3
WD4
WD5
WD6
FB
PCIREQ
6/7
MEM2012T50R0
CN3
CN4
CN5
CN6
CN7
CN8
CN9
SCLK
BLANK
SEQ
IWLD
WDT
RDT
GND
E-WDT
E-RDT
A-WDT
A-RDT
N.C
R210 4700
R216 4700
R222 4700
R228 4700
R234 4700
R240 4700
R246 4700
D34 RD5.6M-T1B
D35 RD5.6M-T1B
D36 RD5.6M-T1B
D37 RD5.6M-T1B
D38 RD5.6M-T1B
D39 RD5.6M-T1B
D40 RD5.6M-T1B
5V
0.1
1
2
3
4
5

System Control Board
CPU-191 (7/7)
BKDS-7011/7021/7022
BOARD NO. 1-658-271-11
BKDS-7011 : LOT NO. 505-508
BKDS-7021 : LOT NO. 505-508
BKDS-7022 : LOT NO. 505-508
B-¥SJXA076-CPU191-11

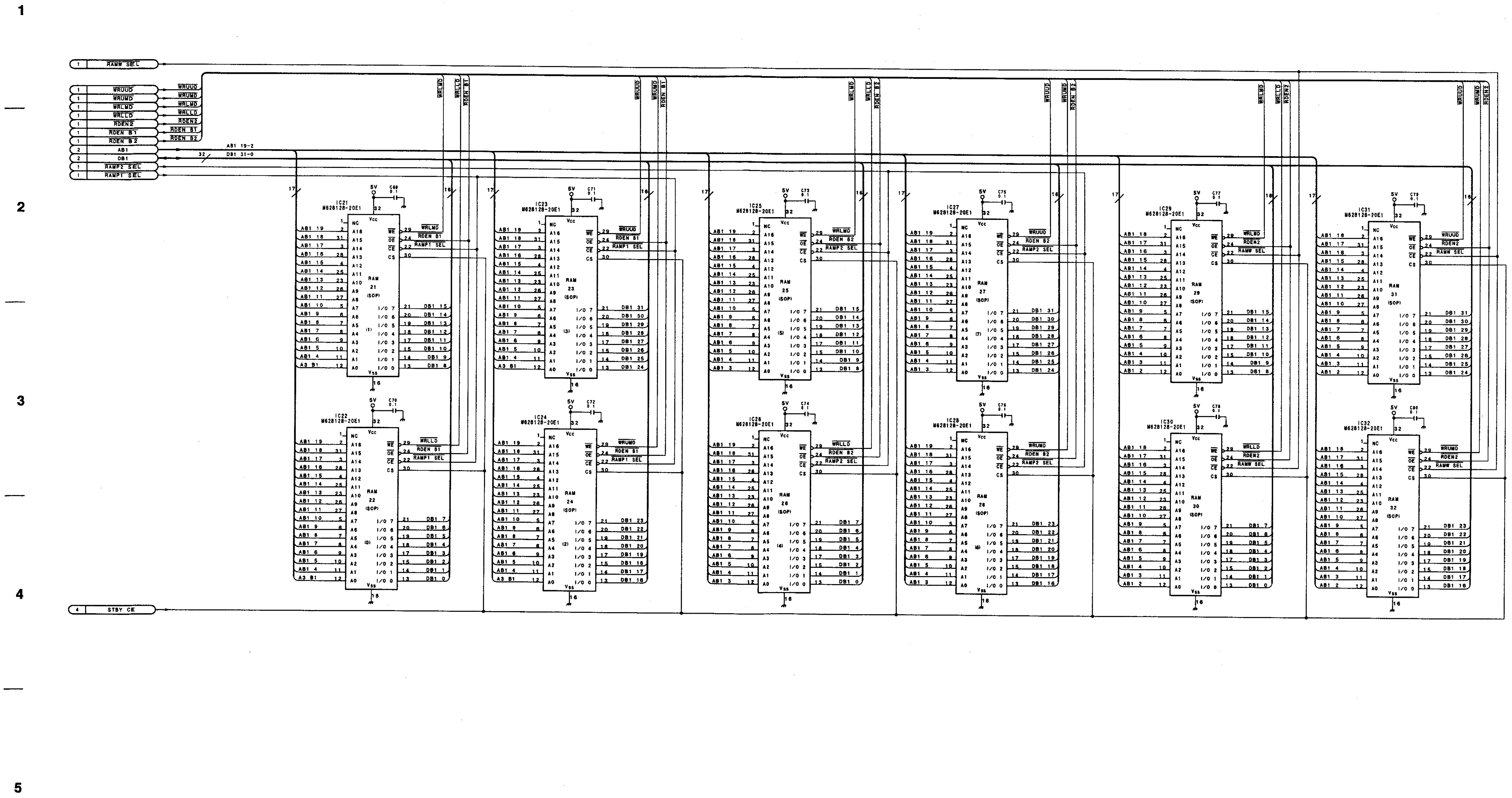
DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
WD RST
RESET
RESET
ODD/EVEN
VD
PIT INT
PIT MASK
DPR INT
FBUSINT
INT CLR
AB2
AC ERINT S
AC ERINT M
ABORT
4FSC
PGM WP
BUSY
IC3 (2/2) EPM7032-CPU192
INT5
INT4
INT3
INT2
INT1
INT0
LED INT
RB44 4.7k
IC4 TC74VHC574F
IC2 TL7705CPS-B
SENSE
RESIN
RESET
CT
VREF
GND
S2 RESET
IC1 (2/7) SN74LS06NS
IC1 (1/7) SN74LS06NS
D1 VR1101W
RESET
IC5 (3/5) TC74VHC132F
IC5 (4/5) TC74VHC132F
IC109 (4/8) TC74ACT541F
IC109 (3/8) TC74ACT541F
22ms
IC7 IDT79R3081-25MJ
(84PIN PLCC)
A/D31-0
INT (5)
INT (4)
INT (3)
SINT (2)
SINT (1)
SINT (0)
SBRCOND (3)
SBRCOND (2)
NC
BRCOND (0)
RSVD (4)
RSVD (3)
RSVD (2)
RSVD (1)
COHREQ
BUSREQ
BUSGNT
CLKIN
DIAG (1)
DIAG (0)
ALE
ADDR (3)
ADDR (2)
RD
WR
BURST/WRNEAR
RDCEN
ACK
BUSERROR
SYSCLK
DATAEN
DIAG1
DIAG0
RB3 100k
RB4 100k
RB5 100k
RB6 100k
RB1 4.7k
RB2 4.7k
1X
HALF
1W
TRI
2X
FULL
4W
NRM
RUN
TP22
DBG
MISS
RDCEN
ACK
SYSCLK
TP23
TP24
TP25
R107 22
R11 10k
IC105 (1/3) TC74HC123AF
D30 AY1101W-88
INT
IC107 (1/5) TC74VHC02F
IC107 (2/5) TC74VHC02F
IC107 (3/5) TC74VHC02F
IC107 (4/5) TC74VHC02F
IC107 (5/5) TC74VHC02F
IC6 AV9107C-10CS8T
ICLK
FS1
FS0
X2
CPUCLK
REFCLK
FS0
FS1
ABORT S1
IC5 (1/5) TC74VHC132F
IC5 (2/5) TC74VHC132F
IC1 (4/7) SN74LS06NS
IC1 (5/7) SN74LS06NS
IC1 (6/7) SN74LS06NS
IC1 (7/7) SN74LS06NS
IC5 (5/5) TC74VHC132F
IC105 (3/3) TC74HC123AF
HALF
ABORT
BUSY
5V


1
2
3
4
5
A/D
A1/A0
A3 B1
BUSWRLE
CHIP1
IC3 (1/2)
EPM7032-CPU192
-INT-V2
5V
C20 0.1
C22 0.1
C24 0.1
C26 0.1
Vcc
SYSCLK
BE3
BE2
BE1
BE0
ADR3
ADR2
RD
WR
ACK
BURST
A1
A0
A3 B1
BUSWRLE
(44P PLCC)
GND
C201 0.1
R110 1k
IC108
TC74ACT157F
1A
1B
2A
2B
3A
3B
4A
4B
1Y
2Y
3Y
4Y
STROBE
SEL
108
WRUUD
WRUMD
WRLMD
WRLLD
3, 4, 8
AB2
ALE
BE
ADR (3:2)
DPREXT SEL
RAMW SEL
RAMP1 SEL
RAMP2 SEL
RAMK SEL
RAMS1 SEL
RAMS2 SEL
FLASH SEL
ROM SEL
PIO SEL
DPR SEL
IC118 (1/7) TC74ACT04F
IC118 (2/7) TC74ACT04F
IC118 (3/7) TC74ACT04F
IC118 (4/7) TC74ACT04F
IC118 (5/7) TC74ACT04F
IC118 (6/7) TC74ACT04F
IC118 (7/7) TC74ACT04F
C220 0.1
118
IC9
74ACT138SJ
C28 0.1
G1
G2A
G2B
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
AB2 18
AB2 17
AB2 16
DPR1 SEL
DPR2 SEL
DPR3 SEL
DPR4 SEL
DPR5 SEL
DPR6 SEL
FM SEL
FBUS SEL
CHIP2
IC8
EPM7032-CPU192
-ADRS-V1
C21 0.1
C23 0.1
C25 0.1
C27 0.1
AB2 23
AB2 22
AB2 21
AB2 20
AB2 19
A23
A22
A21
A20
A19
A18
A17
A16
RDCEN
BUSERROR
SYSCLK
RESET
PGM WP
DIAG1
BUSCTL2
TP27
TP28
WRCACHE
RDCACHE
DATAEN
TP26
BUS ERR EN
SL2
R9 1k
IC110
EPM7032-CPU192
-CTL-V1
CHIP3
C209 0.1
C210 0.1
C211 0.1
C212 0.1
BUSEREN
ABORT
BUSY
FS1
FS0
HALF
RDEN
RDEN B1
RDEN B2
WREN
BUSWR
110
IC109 (8/8)
TC74ACT541F
C208 0.1
GND G1 G2
R12 4.7k
R13 4.7k
IC109 (6/8) TC74ACT541F
IC109 (5/8) TC74ACT541F
IC109 (7/8) TC74ACT541F
IC109 (1/8) TC74ACT541F
RDEN1
RDEN2
WREN1
BUSRDLE
BUSRD
DIAG1
BUSCTL

System Control Board
CPU-192 (1/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

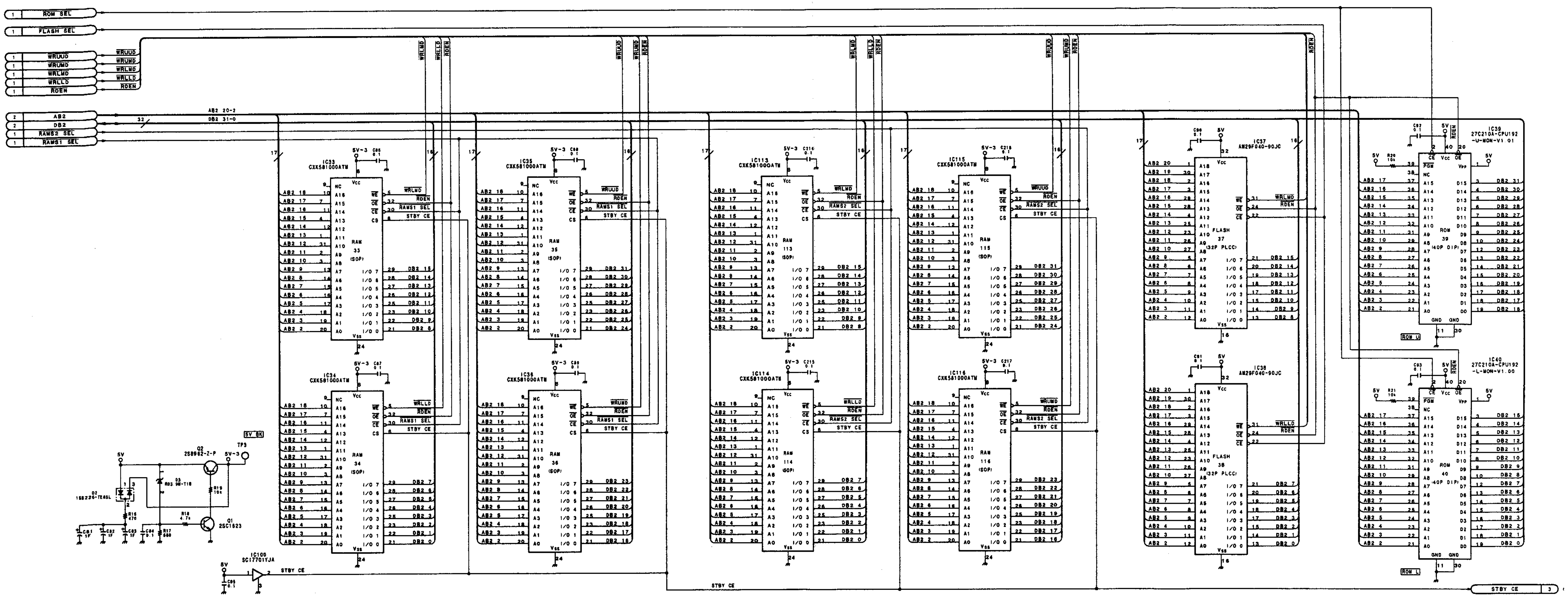
DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


1
2
3
4
5
RAMW SEL
WRUUD
WRUMD
WRLMD
WRLLD
RDEN2
RDEN B1
RDEN B2
AB1
DB1
RAMP2 SEL
RAMP1 SEL
AB1 19-2
DB1 31-0
32
17
16
5V
IC21 M628128-20E1
IC22 M628128-20E1
IC23 M628128-20E1
IC24 M628128-20E1
IC25 M628128-20E1
IC26 M628128-20E1
IC27 M628128-20E1
IC28 M628128-20E1
IC29 M628128-20E1
IC30 M628128-20E1
IC31 M628128-20E1
IC32 M628128-20E1
NC
Vcc
Vss
WE
OE
CE
CS
RAM (SOP)
STBY CE

System Control Board
CPU-192 (3/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

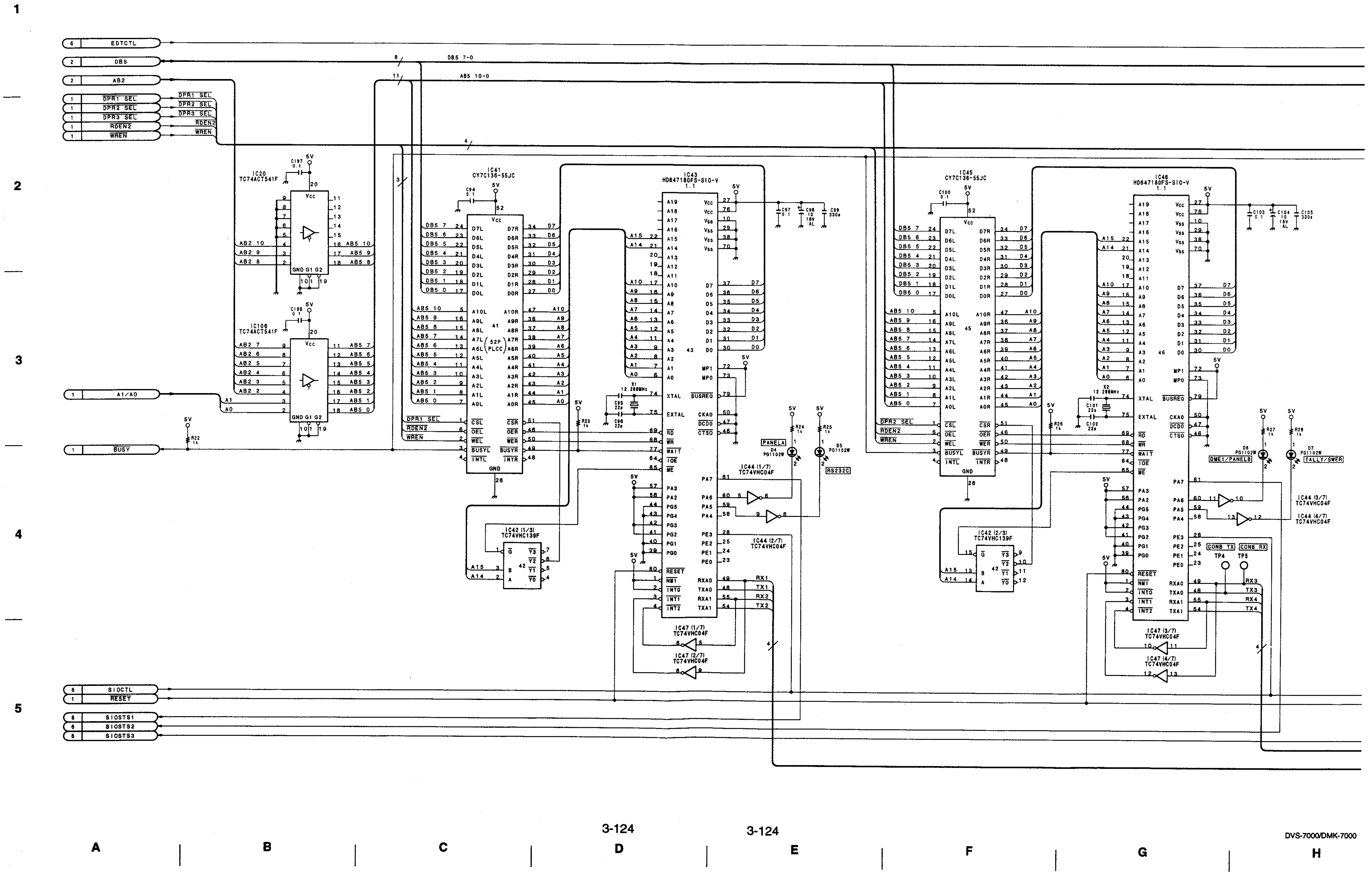
A B C D E F G H

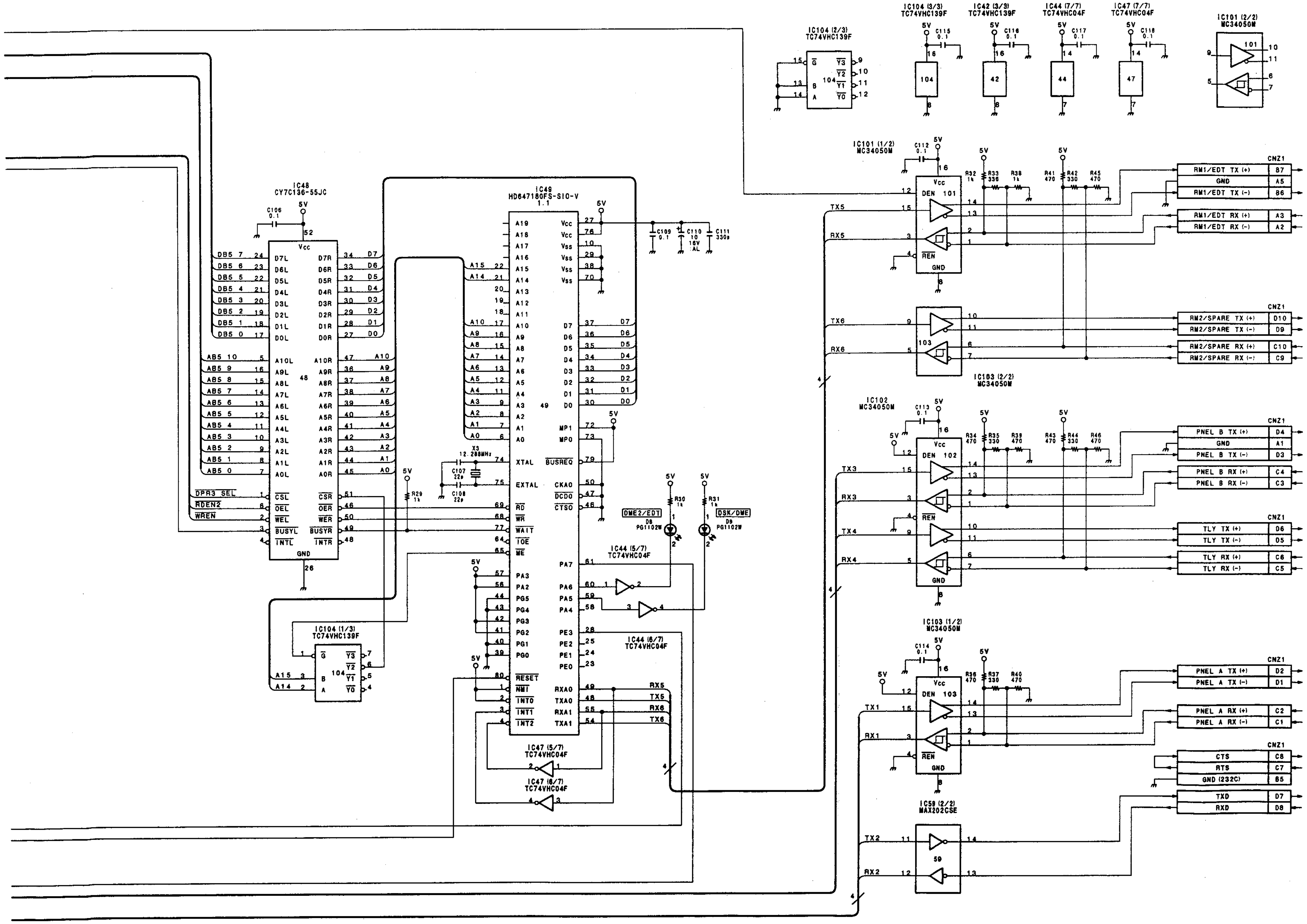
DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


ROM SEL
FLASH SEL
WRUUD
WRUMD
WRLMD
WRLLD
RDEN
AB2
DB2
RAMS2 SEL
RAMS1 SEL
AB2 20-2
DB2 31-0
IC33 CXK581000ATM
RAM 33 (SOP)
IC34 CXK581000ATM
RAM 34 (SOP)
IC35 CXK581000ATM
RAM 35 (SOP)
IC36 CXK581000ATM
RAM 36 (SOP)
IC113 CXK581000ATM
RAM 113 (SOP)
IC114 CXK581000ATM
RAM 114 (SOP)
IC115 CXK581000ATM
RAM 115 (SOP)
IC116 CXK581000ATM
RAM 116 (SOP)
IC37 AM29F040-90JC
FLASH 37 (32P PLCC)
IC38 AM29F040-90JC
FLASH 38 (32P PLCC)
IC39 27C210A-CPU192 -U-MON-V1.01
ROM 39 (40P DIP)
IC40 27C210A-CPU192 -L-MON-V1.00
ROM 40 (40P DIP)
ROM U
ROM L
5V-3
5V
TP3
5V SW
Q2 2SB962-Z-P
Q1 2SC1623
D2 1SS226-TE85L
IC100 SC17701YJA
STBY CE

System Control Board
CPU-192 (4/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

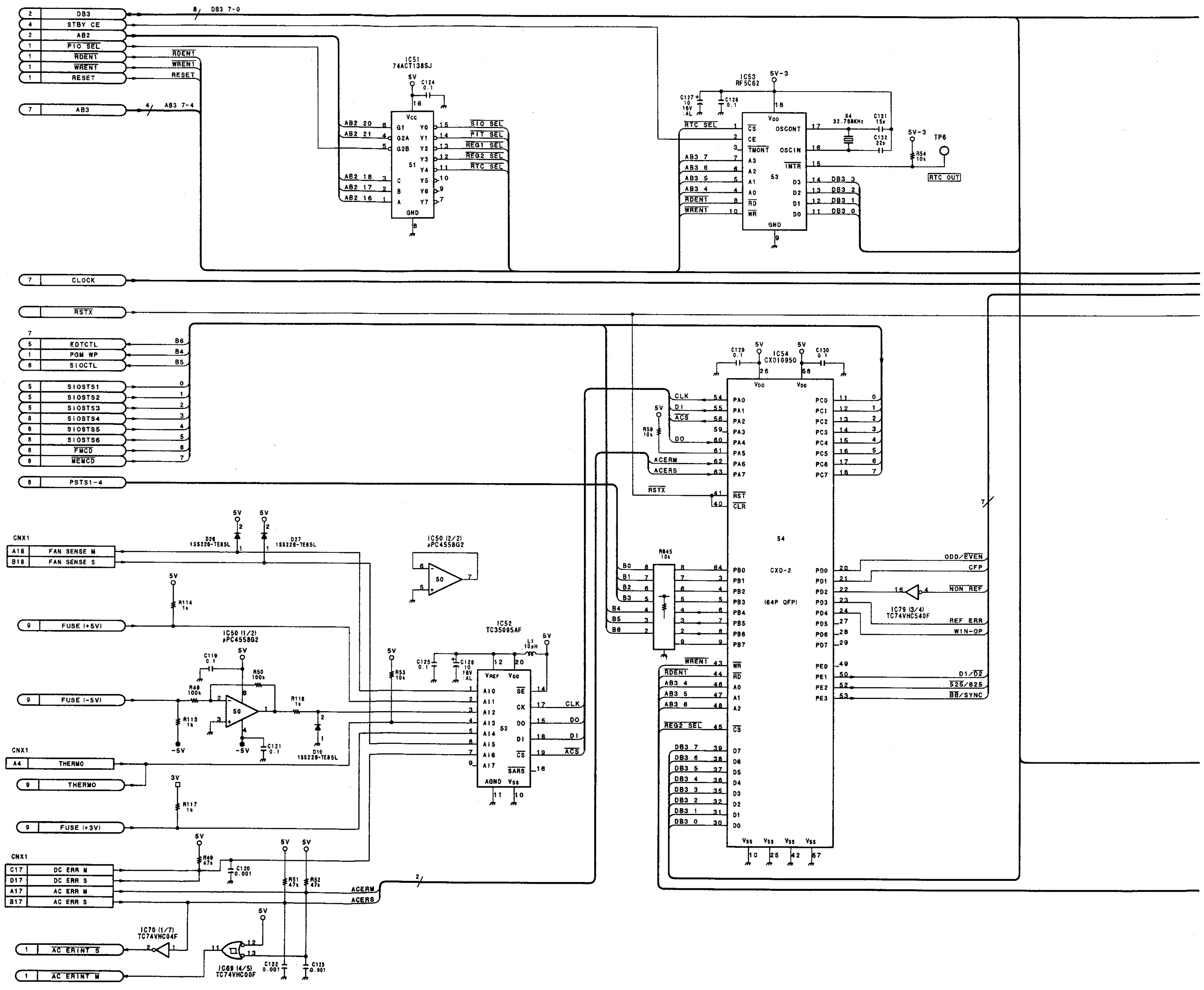
DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


1
2
3
4
5
EDTCTL
DB5
AB2
DPR1 SEL
DPR2 SEL
DPR3 SEL
RDEN2
WREN
A1/A0
BUSY
SIOCTL
RESET
SIOSTS1
SIOSTS2
SIOSTS3
DB5 7-0
AB5 10-0
IC20 TC74ACT541F
IC106 TC74ACT541F
IC41 CY7C136-55JC
52P PLCC
IC43 HD647180FS-SIO-V
IC45 CY7C136-55JC
IC46 HD647180FS-SIO-V
IC42 (1/3) TC74VHC139F
IC42 (2/3) TC74VHC139F
IC44 (1/7) TC74VHC04F
IC44 (2/7) TC74VHC04F
IC44 (3/7) TC74VHC04F
IC44 (4/7) TC74VHC04F
IC47 (1/7) TC74VHC04F
IC47 (2/7) TC74VHC04F
IC47 (3/7) TC74VHC04F
IC47 (4/7) TC74VHC04F
X1 12.288MHz
X2 12.288MHz
D4 PG1102W
D5 PG1102W
D6 PG1102W
D7 PG1102W
PANELA
RS232C
DME1/PANELB
TALLY/SWER
CONB TX
CONB RX
TP4
TP5
5V
A
B
C
D
E
F
G
H

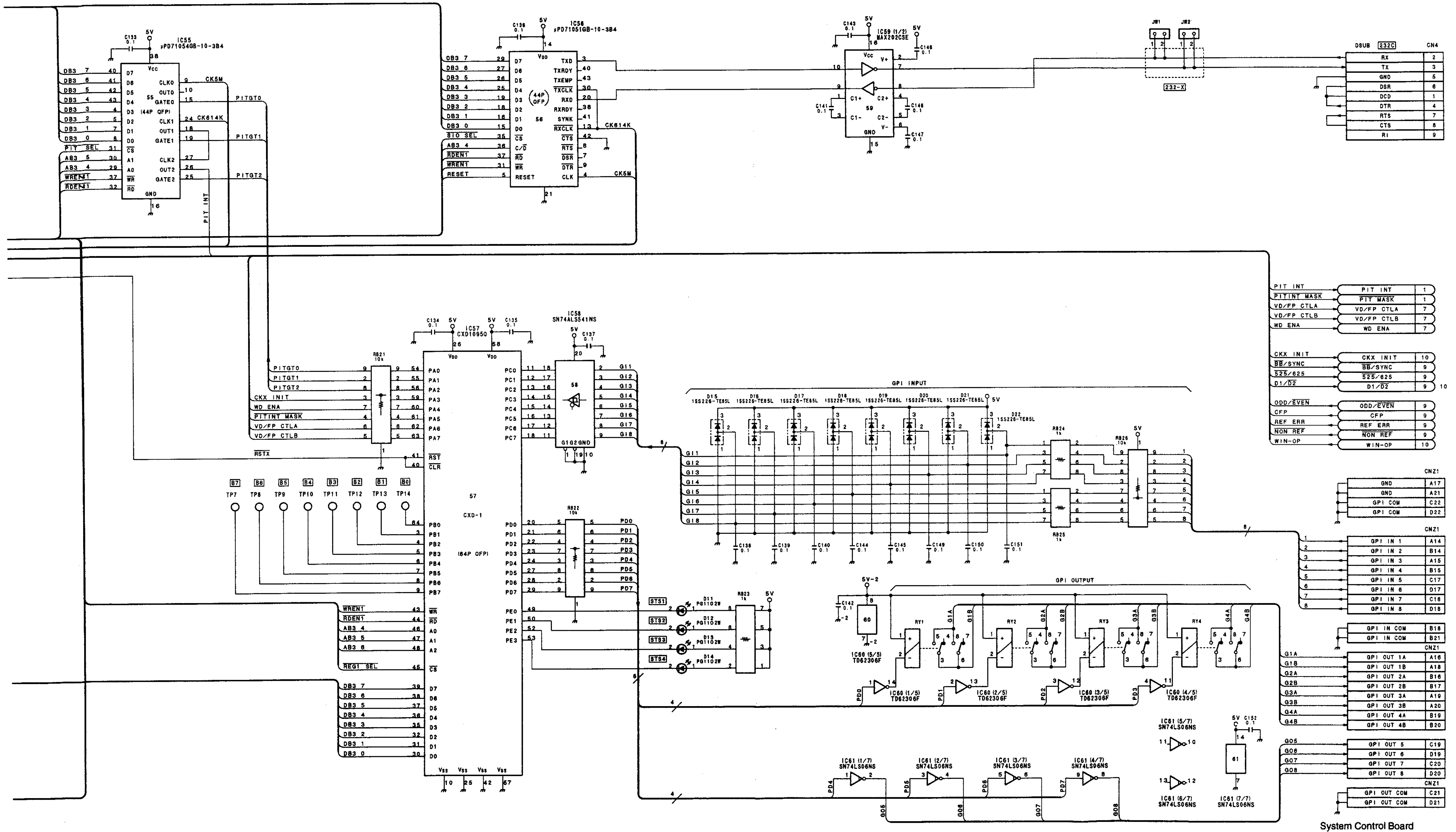

IC48
CY7C136-55JC
IC49
HD647180FS-S10-V
IC104 (1/3)
TC74VHC139F
IC104 (2/3)
TC74VHC139F
IC104 (3/3)
TC74VHC139F
IC42 (3/3)
TC74VHC139F
IC44 (7/7)
TC74VHC04F
IC47 (7/7)
TC74VHC04F
IC101 (2/2)
MC34050M
IC101 (1/2)
MC34050M
IC102
MC34050M
IC103 (2/2)
MC34050M
IC103 (1/2)
MC34050M
IC59 (2/2)
MAX202CSE
IC44 (5/7)
TC74VHC04F
IC44 (6/7)
TC74VHC04F
IC47 (5/7)
TC74VHC04F
IC47 (6/7)
TC74VHC04F
X3
12.288MHz
DME2/EDT1
D8
PG1102W
DSK/DME
D9
PG1102W
DPR3 SEL
RDEN2
WREN
A15
A14
TX5
RX5
TX6
RX6
TX3
RX3
TX4
RX4
TX1
RX1
TX2
RX2
CNZ1
RM1/EDT TX (+)
GND
RM1/EDT TX (-)
RM1/EDT RX (+)
RM1/EDT RX (-)
RM2/SPARE TX (+)
RM2/SPARE TX (-)
RM2/SPARE RX (+)
RM2/SPARE RX (-)
PNEL B TX (+)
GND
PNEL B TX (-)
PNEL B RX (+)
PNEL B RX (-)
TLY TX (+)
TLY TX (-)
TLY RX (+)
TLY RX (-)
PNEL A TX (+)
PNEL A TX (-)
PNEL A RX (+)
PNEL A RX (-)
CTS
RTS
GND (232C)
TXD
RXD
5V

System Control Board
CPU-192 (5/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher

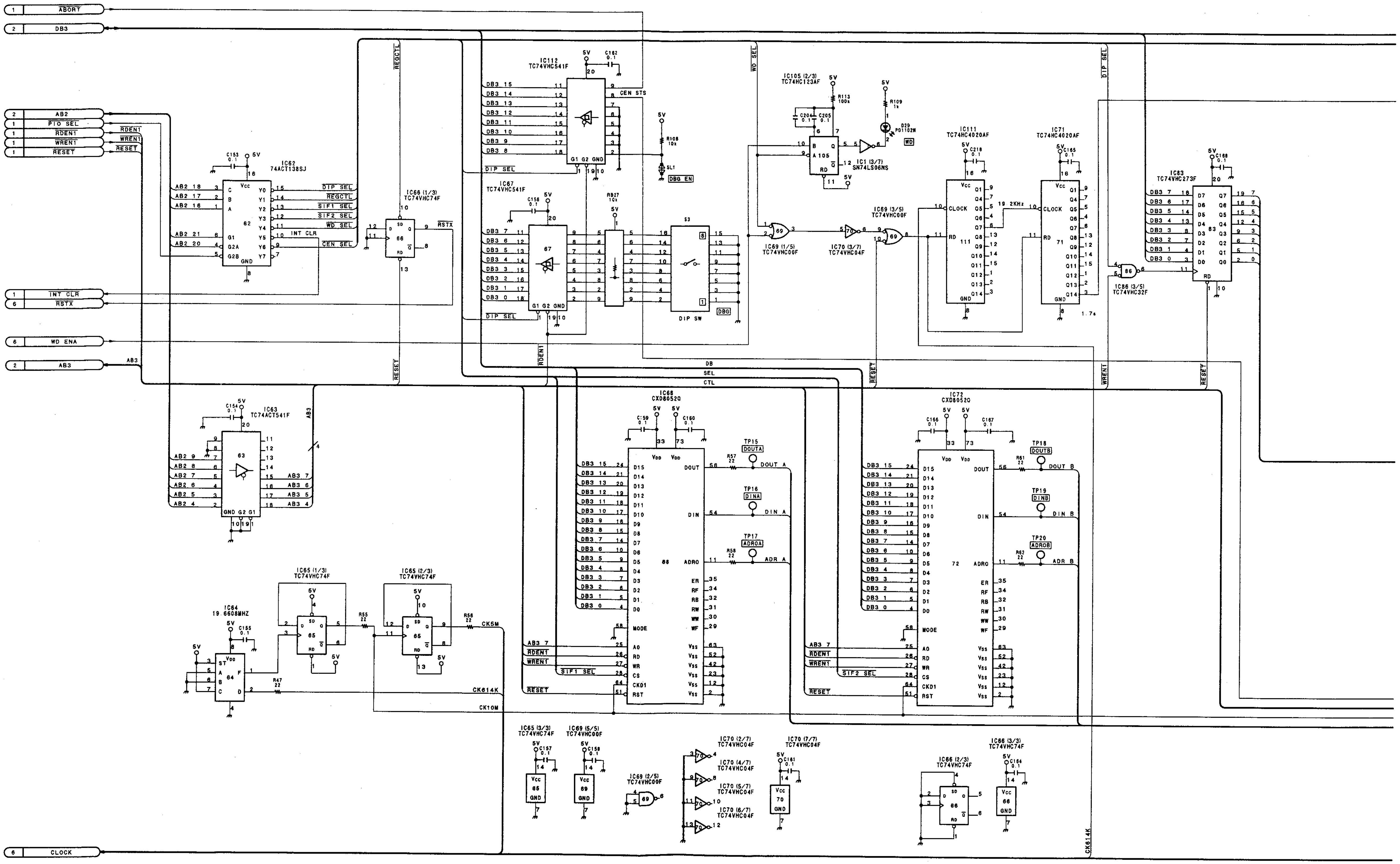


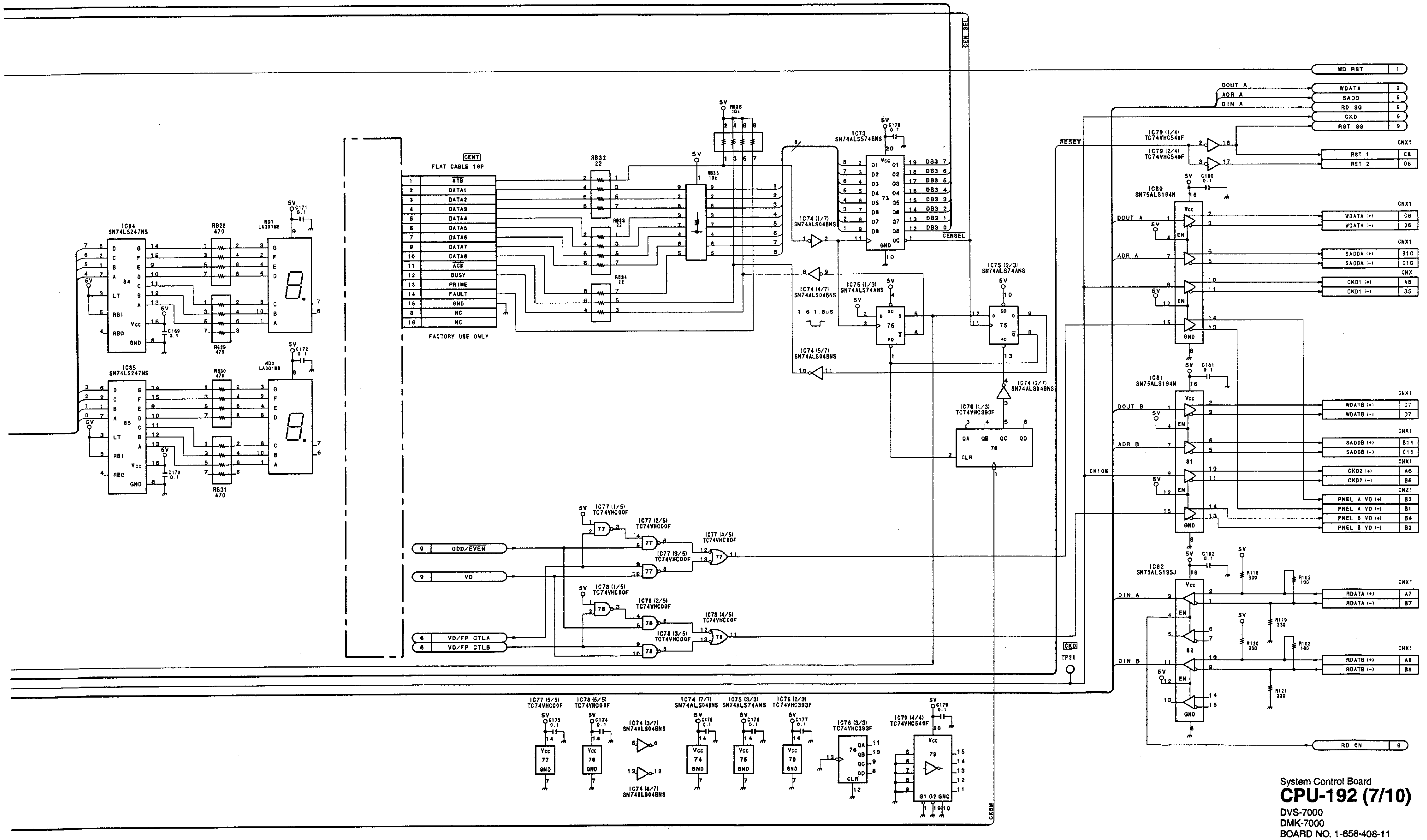
DB3
STBY CE
AB2
PIO SEL
RDENT
WRENT
RESET
AB3
DB3 7-0
AB3 7-4
IC51
74ACT138SJ
STO SEL
PTT SEL
REG1 SEL
REG2 SEL
RTC SEL
IC53
RF5C62
X4
32.768KHz
OSCONT
OSCIN
INTR
TP6
RTC OUT
CLOCK
RSTX
EDTCTL
PGM WP
SIOCTL
SIOSTS1
SIOSTS2
SIOSTS3
SIOSTS4
SIOSTS5
SIOSTS6
FMCD
MEMCD
PSTS1-4
IC54
CX010950
CXD-2
(64P QFP)
RB45
10k
ODD/EVEN
CFP
NON REF
IC79 (3/4)
TC74VHC540F
REF ERR
WIN-OP
D1/D2
525/625
BB/SYNC
CNX1
FAN SENSE M
FAN SENSE S
D26
1SS226-TE85L
D27
1SS226-TE85L
IC50 (2/2)
µPC4558G2
FUSE (+5V)
IC50 (1/2)
µPC4558G2
FUSE (-5V)
IC52
TC35095AF
CLK
DO
DI
ACS
THERMO
FUSE (+3V)
DC ERR M
DC ERR S
AC ERR M
AC ERR S
ACERM
ACERS
AC ERINT S
AC ERINT M
IC70 (1/7)
TC74VHC04F
IC69 (4/5)
TC74VHC00F
1
2
3
4
5


IC55
μPD71054GB-10-3B4
C133 0.1
5V
CK5M
PITGT0
PITGT1
PITGT2
CK614K
PIT INT
PIT SEL
AB3 5
AB3 4
WRENT
RDENT
IC56
μPD71051GB-10-3B4
C136 0.1
SIO SEL
AB3 4
RDENT
WRENT
RESET
IC59 (1/2)
MAX202CSE
C143 0.1
C145
C146
C147
C141 0.1
JW1
JW2
232-X
DSUB 232C
CN4
RX
TX
GND
DSR
DCD
DTR
RTS
CTS
RI
IC57
CXD1095Q
C134 0.1
C135 0.1
RB21 10k
CKX INIT
WD ENA
PITINT MASK
VD/FP CTLA
VD/FP CTLB
RSTX
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
57
CXD-1
(64P QFP)
IC58
SN74ALS541NS
C137 0.1
RB22 10k
REG1 SEL
DB3 7
DB3 6
DB3 5
DB3 4
DB3 3
DB3 2
DB3 1
DB3 0
ST51
ST52
ST53
ST54
D11 PG1102W
D12 PG1102W
D13 PG1102W
D14 PG1102W
RB23 1k
GPI INPUT
D15 1SS226-TE85L
D16 1SS226-TE85L
D17 1SS226-TE85L
D18 1SS226-TE85L
D19 1SS226-TE85L
D20 1SS226-TE85L
D21 1SS226-TE85L
D22 1SS226-TE85L
RB24 1k
RB25 1k
RB26 10k
C138 0.1
C139 0.1
C140 0.1
C144 0.1
C145 0.1
C149 0.1
C150 0.1
C151 0.1
GPI OUTPUT
5V-2
C142 0.1
RY1
RY2
RY3
RY4
IC60 (5/5) TD62306F
IC60 (1/5) TD62306F
IC60 (2/5) TD62306F
IC60 (3/5) TD62306F
IC60 (4/5) TD62306F
IC61 (1/7) SN74LS06NS
IC61 (2/7) SN74LS06NS
IC61 (3/7) SN74LS06NS
IC61 (4/7) SN74LS06NS
IC61 (5/7) SN74LS06NS
IC61 (6/7) SN74LS06NS
IC61 (7/7) SN74LS06NS
C152 0.1
PIT INT
PIT MASK
VD/FP CTLA
VD/FP CTLB
WD ENA
CKX INIT
BB/SYNC
525/625
D1/D2
ODD/EVEN
CFP
REF ERR
NON REF
WIN-OP
CNZ1
GND
GPI COM
GPI IN 1
GPI IN 2
GPI IN 3
GPI IN 4
GPI IN 5
GPI IN 6
GPI IN 7
GPI IN 8
GPI IN COM
GPI OUT 1A
GPI OUT 1B
GPI OUT 2A
GPI OUT 2B
GPI OUT 3A
GPI OUT 3B
GPI OUT 4A
GPI OUT 4B
GPI OUT 5
GPI OUT 6
GPI OUT 7
GPI OUT 8
GPI OUT COM
1
2
3
4
5

System Control Board
CPU-192 (6/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher

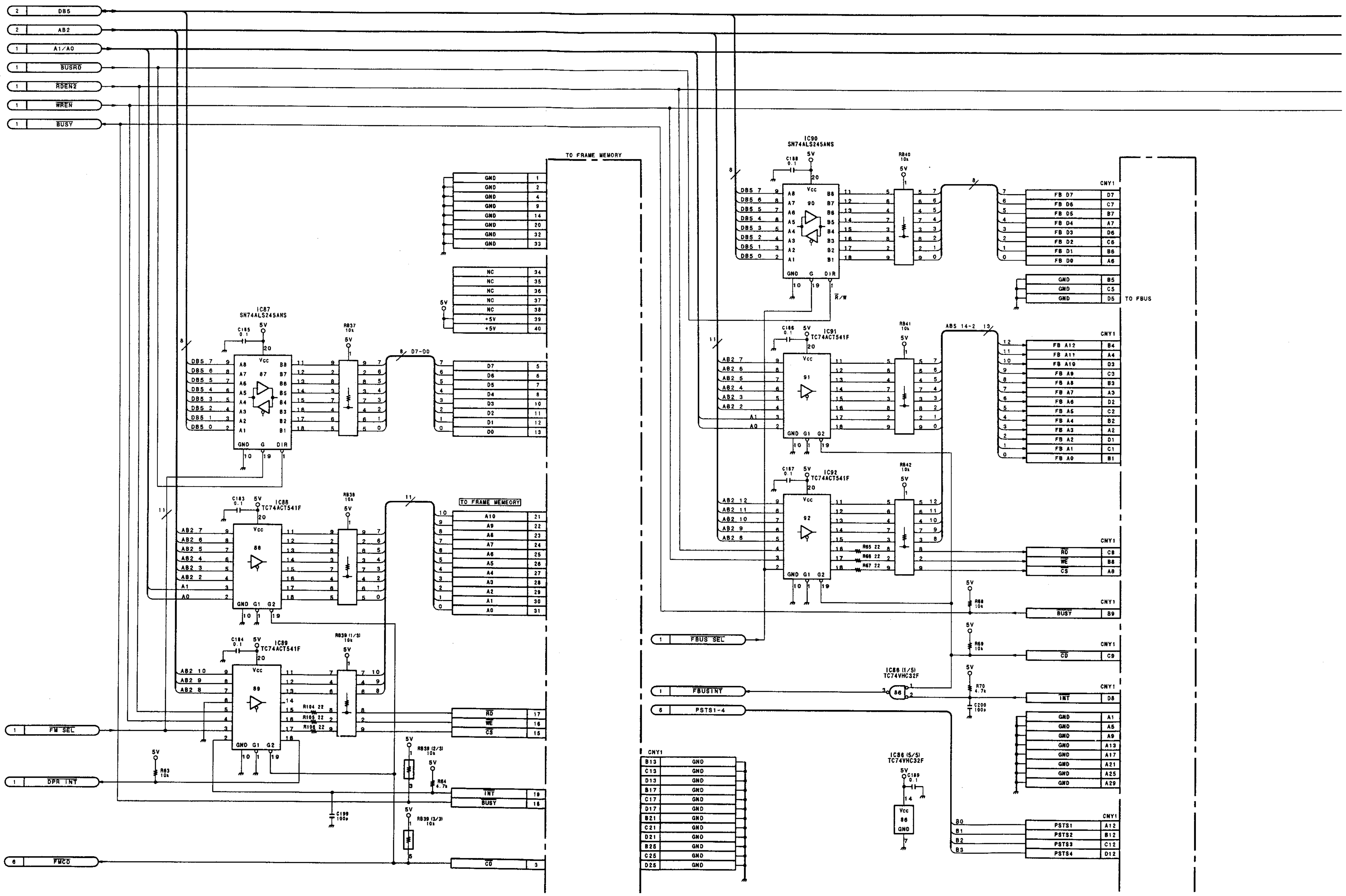

1
2
3
4
5
ABORT
DB3
AB2
PIO SEL
RDENT
WRENT
RESET
INT CLR
RSTX
WD ENA
AB3
CLOCK
IC62
74ACT138SJ
DIP SEL
REGCTL
SIF1 SEL
SIF2 SEL
WD SEL
INT CLR
CEN SEL
IC66 (1/3)
TC74VHC74F
IC112
TC74VHC541F
CEN STS
IC67
TC74VHC541F
R108
10k
SL1
DBG EN
R827
10k
S3
DIP SW
DBG
WD SEL
IC105 (2/3)
TC74HC123AF
R113
100k
R109
1k
D29
PG1102W
WD
IC1 (3/7)
SN74LS06NS
IC69 (1/5)
TC74VHC00F
IC70 (3/7)
TC74VHC04F
IC69 (3/5)
TC74VHC00F
IC111
TC74HC4020AF
19.2KHz
IC71
TC74HC4020AF
1.7s
DIP SEL
IC86 (3/5)
TC74VHC32F
IC83
TC74VHC273F
RESET
RDENT
DB
SEL
CTL
WRENT
IC63
TC74ACT541F
IC68
CXD80520
TP15
DOUTA
DOUT A
TP16
DINA
DIN A
TP17
ADROA
ADR A
IC72
CXD80520
TP18
DOUTB
DOUT B
TP19
DINB
DIN B
TP20
ADROB
ADR B
SIF1 SEL
SIF2 SEL
IC64
19.6608MHZ
IC65 (1/3)
TC74VHC74F
IC65 (2/3)
TC74VHC74F
R55
22
R56
22
R47
22
CK5M
CK614K
CK10M
IC65 (3/3)
TC74VHC74F
IC69 (5/5)
TC74VHC00F
IC69 (2/5)
TC74VHC00F
IC70 (2/7)
TC74VHC04F
IC70 (4/7)
TC74VHC04F
IC70 (5/7)
TC74VHC04F
IC70 (6/7)
TC74VHC04F
IC70 (7/7)
TC74VHC04F
IC86 (2/3)
TC74VHC74F
IC86 (3/3)
TC74VHC74F
CK614K
A
B
C
D
E
F
G
H


CEN SEL
WD RST
DOUT A
ADR A
DIN A
WDATA
SADD
RD SG
CKD
RST SG
RESET
IC79 (1/4) TC74VHC540F
IC79 (2/4) TC74VHC540F
CNX1
RST 1
RST 2
IC80 SN75ALS194N
IC81 SN75ALS194N
IC82 SN75ALS195J
WDATA (+)
WDATA (−)
SADDA (+)
SADDA (−)
CKD1 (+)
CKD1 (−)
WDATB (+)
WDATB (−)
SADDB (+)
SADDB (−)
CKD2 (+)
CKD2 (−)
CNZ1
PNEL A VD (+)
PNEL A VD (−)
PNEL B VD (+)
PNEL B VD (−)
RDATA (+)
RDATA (−)
RDATB (+)
RDATB (−)
RD EN
DOUT B
ADR B
DIN B
CK10M
CKD
TP21
IC73 SN74ALS574BNS
DB3
CENSEL
IC74 (1/7) SN74ALS04BNS
IC74 (4/7) SN74ALS04BNS
IC74 (5/7) SN74ALS04BNS
IC74 (2/7) SN74ALS04BNS
IC75 (1/3) SN74ALS74ANS
IC75 (2/3) SN74ALS74ANS
IC76 (1/3) TC74VHC393F
1.6 1.8μs
CENT
FLAT CABLE 16P
STB
DATA1
DATA2
DATA3
DATA4
DATA5
DATA6
DATA7
DATA8
ACK
BUSY
PRIME
FAULT
GND
NC
FACTORY USE ONLY
RB32 22
RB33 22
RB34 22
RB35 10k
RB36 10k
IC84 SN74LS247NS
IC85 SN74LS247NS
RB28 470
RB29 470
RB30 470
RB31 470
ND1 LA301MB
ND2 LA301MB
C169 0.1
C170 0.1
C171 0.1
C172 0.1
ODD/EVEN
VD
VD/FP CTLA
VD/FP CTLB
IC77 (1/5) TC74VHC00F
IC77 (2/5) TC74VHC00F
IC77 (3/5) TC74VHC00F
IC77 (4/5) TC74VHC00F
IC78 (1/5) TC74VHC00F
IC78 (2/5) TC74VHC00F
IC78 (3/5) TC74VHC00F
IC78 (4/5) TC74VHC00F
IC77 (5/5) TC74VHC00F
IC78 (5/5) TC74VHC00F
IC74 (3/7) SN74ALS04BNS
IC74 (6/7) SN74ALS04BNS
IC74 (7/7) SN74ALS04BNS
IC75 (3/3) SN74ALS74ANS
IC76 (2/3) TC74VHC393F
IC76 (3/3) TC74VHC393F
IC79 (4/4) TC74VHC540F
R118 330
R119 330
R120 330
R121 330
R102 100
R103 100
CK5M
5V

System Control Board
CPU-192 (7/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

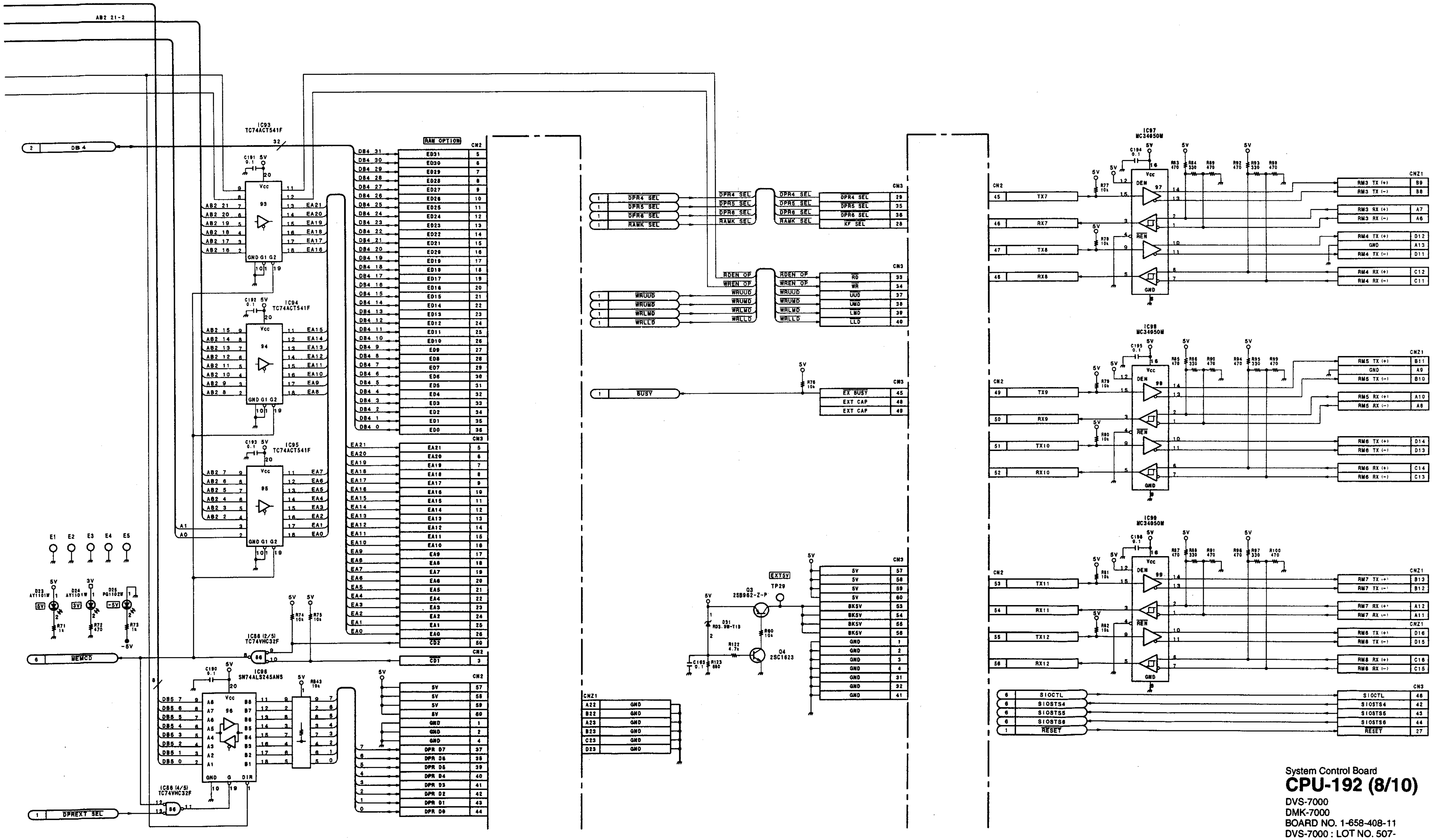
CPU-192 (8/10) System Control Board

DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher



DB5
AB2
A1/A0
BUSRQ
RDEN2
WREN
BUSY
FM SEL
DPR INT
FMCD
TO FRAME MEMORY
IC87 SN74ALS245ANS
IC88 TC74ACT541F
IC89 TC74ACT541F
IC90 SN74ALS245ANS
IC91 TC74ACT541F
IC92 TC74ACT541F
IC86 (1/5) TC74VHC32F
IC86 (5/5) TC74VHC32F
R837 10k
R838 10k
R839 (1/3) 10k
R839 (2/3) 10k
R839 (3/3) 10k
R840 10k
R841 10k
R842 10k
R63 10k
R64 4.7k
R68 10k
R69 10k
R70 4.7k
R104 22
R105 22
R106 22
R65 22
R66 22
R67 22
C183 0.1
C184 0.1
C185 0.1
C186 0.1
C187 0.1
C188 0.1
C189 0.1
C199 100p
C200 100p
5V
D7-D0
ABS 14-2
GND
NC
+5V
D7
D6
D5
D4
D3
D2
D1
D0
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
RD
WE
CS
INT
BUSY
CD
FBUS SEL
FBUSINT
PSTS1-4
CNY1
FB D7
FB D6
FB D5
FB D4
FB D3
FB D2
FB D1
FB D0
FB A12
FB A11
FB A10
FB A9
FB A8
FB A7
FB A6
FB A5
FB A4
FB A3
FB A2
FB A1
FB A0
PSTS1
PSTS2
PSTS3
PSTS4
TO FBUS
R/W

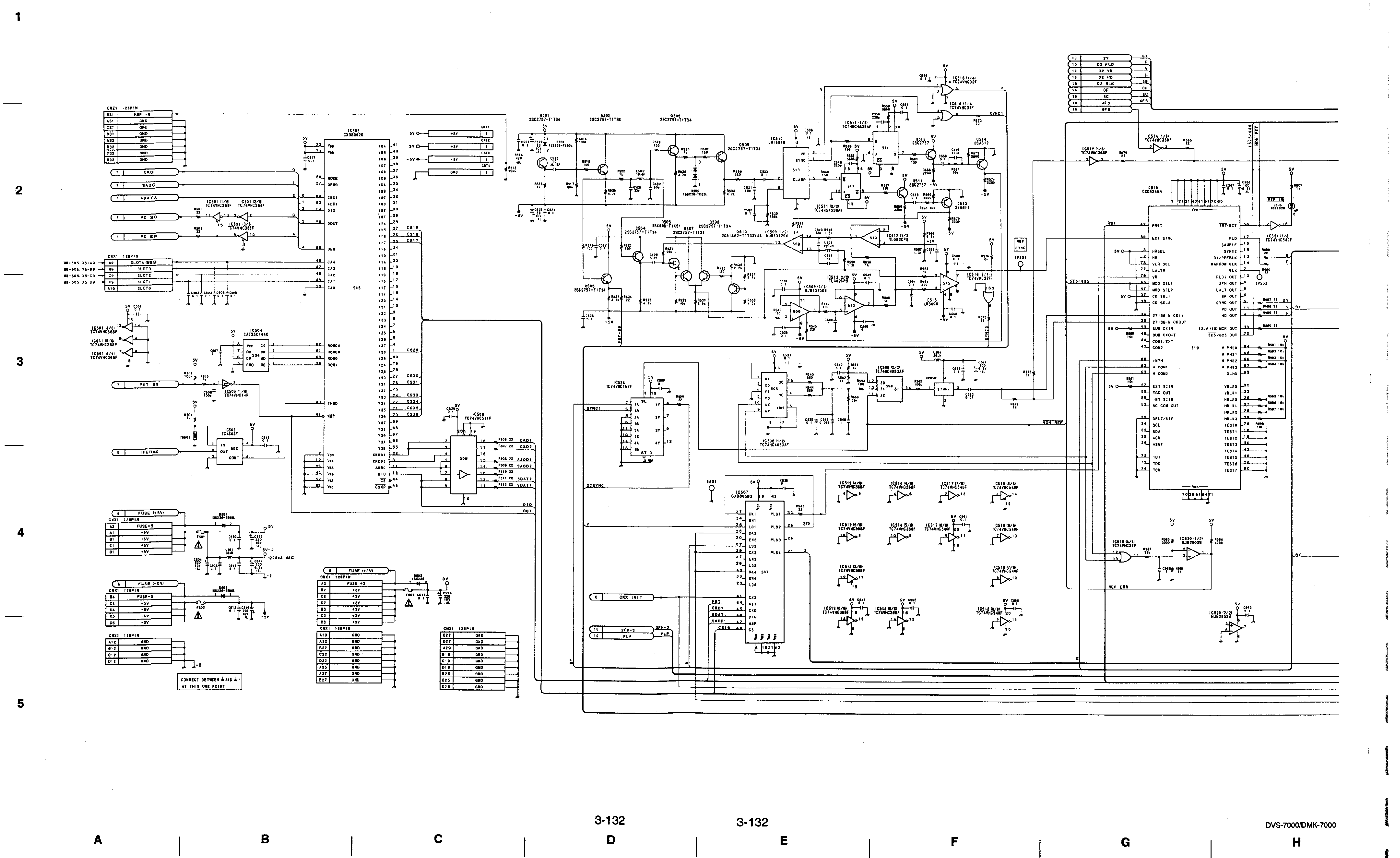
3-130

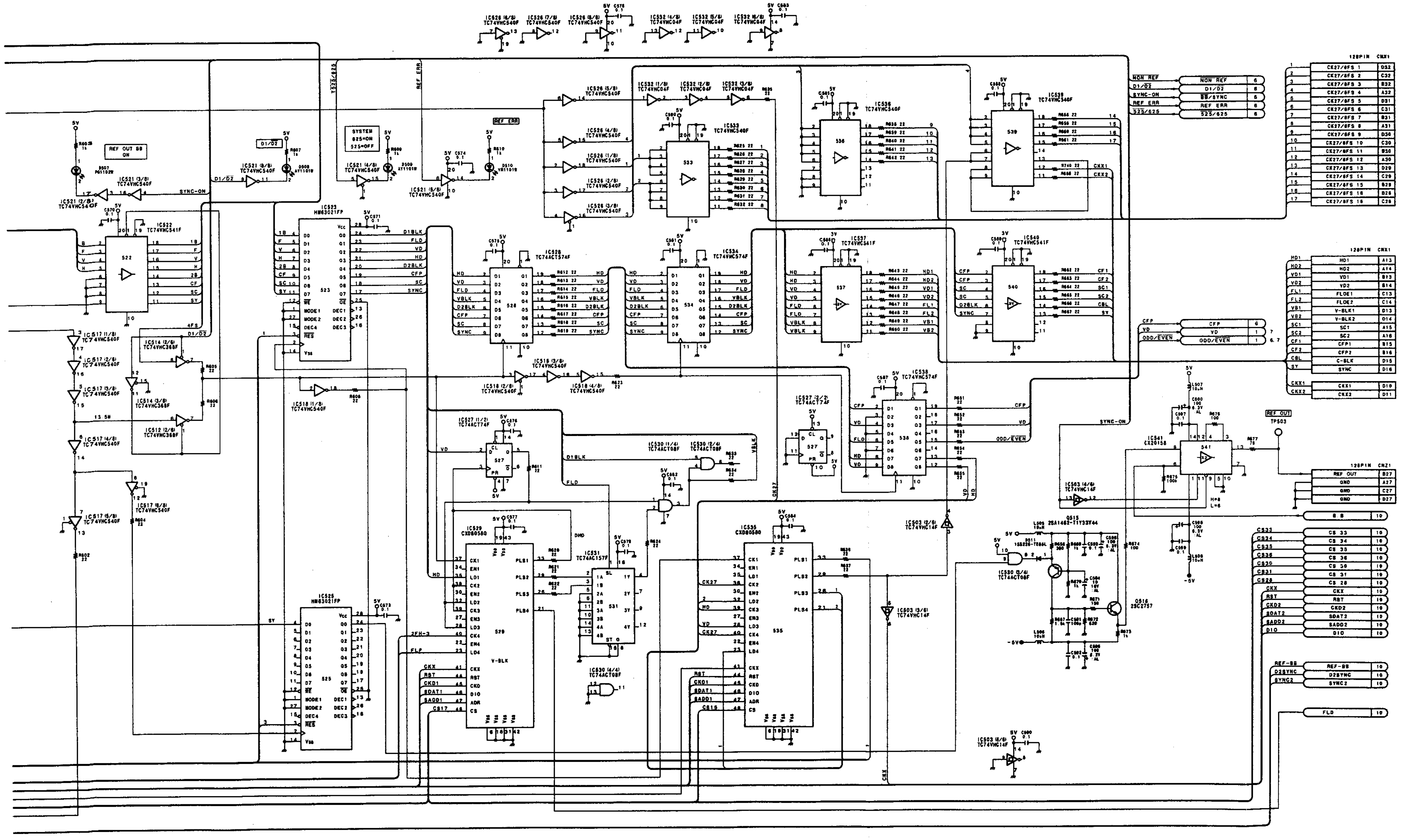

AB2 21-2
DB 4
IC93 TC74ACT541F
IC94 TC74ACT541F
IC95 TC74ACT541F
RAM OPTION
CN2
CN3
IC86 (2/5) TC74VHC32F
IC86 (4/5) TC74VHC32F
IC96 SN74ALS245ANS
MEMCD
DPREXT SEL
E1 E2 E3 E4 E5
D23 AY1101W
D24 AY1101W
D25 PG1102W
5V 3V -5V
DPR4 SEL
DPR5 SEL
DPR6 SEL
RAMK SEL
KF SEL
RDEN OP
WREN OP
WRUUD
WRUMD
WRLMD
WRLLD
RD WR UUD UMD LMD LLD
BUSY
EX BUSY
EXT CAP
EXT CAP
EXT5V
TP29
Q3 2SB962-Z-P
Q4 2SC1623
D31 RD3.9M-T1B
BK5V
GND
CNZ1
IC97 MC34050M
IC98 MC34050M
IC99 MC34050M
TX7 RX7 TX8 RX8
TX9 RX9 TX10 RX10
TX11 RX11 TX12 RX12
RM3 TX (+) RM3 TX (-) RM3 RX (+) RM3 RX (-)
RM4 TX (+) RM4 TX (-) RM4 RX (+) RM4 RX (-)
RM5 TX (+) RM5 TX (-) RM5 RX (+) RM5 RX (-)
RM6 TX (+) RM6 TX (-) RM6 RX (+) RM6 RX (-)
RM7 TX (+) RM7 TX (-) RM7 RX (+) RM7 RX (-)
RM8 TX (+) RM8 TX (-) RM8 RX (+) RM8 RX (-)
SIOCTL
SIOSTS4
SIOSTS5
SIOSTS6
RESET
1
2
3
4
5

System Control Board
CPU-192 (8/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

CPU-192 (9/10) System Control Board

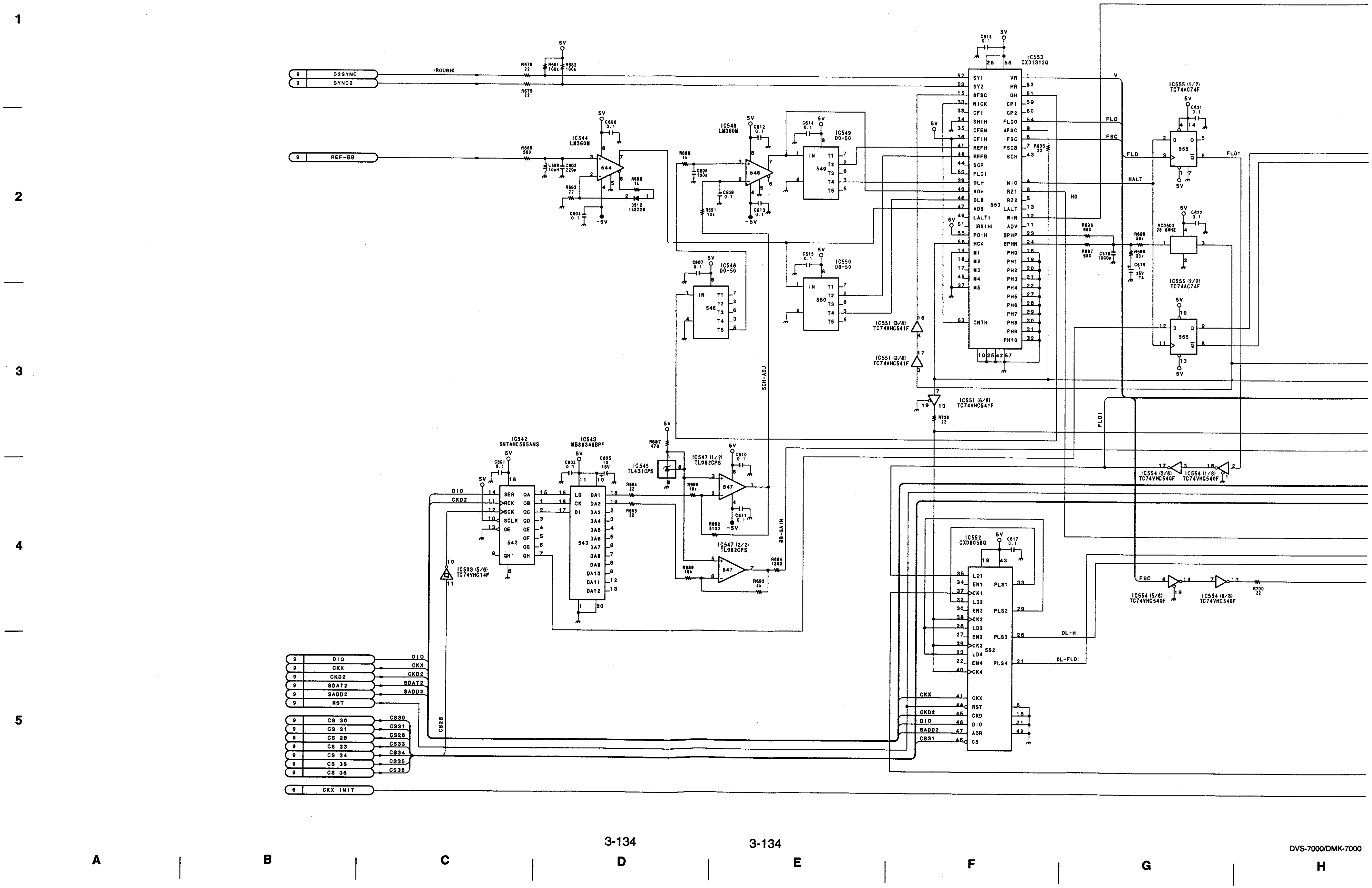
DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
IC505 CXD8052Q
IC519 CXD8356R
IC507 CXD8058Q
CKD
SADD
WDATA
RD SG
RD EN
RST SG
THERMO
FUSE (+5V)
FUSE (-5V)
FUSE (+3V)
CRX INIT
2FH-3
FLP
REF IN
REF SYNC
TP501
NON REF
REF ERR
D2SYNC
SYNC1
CONNECT BETWEEN AND AT THIS ONE POINT

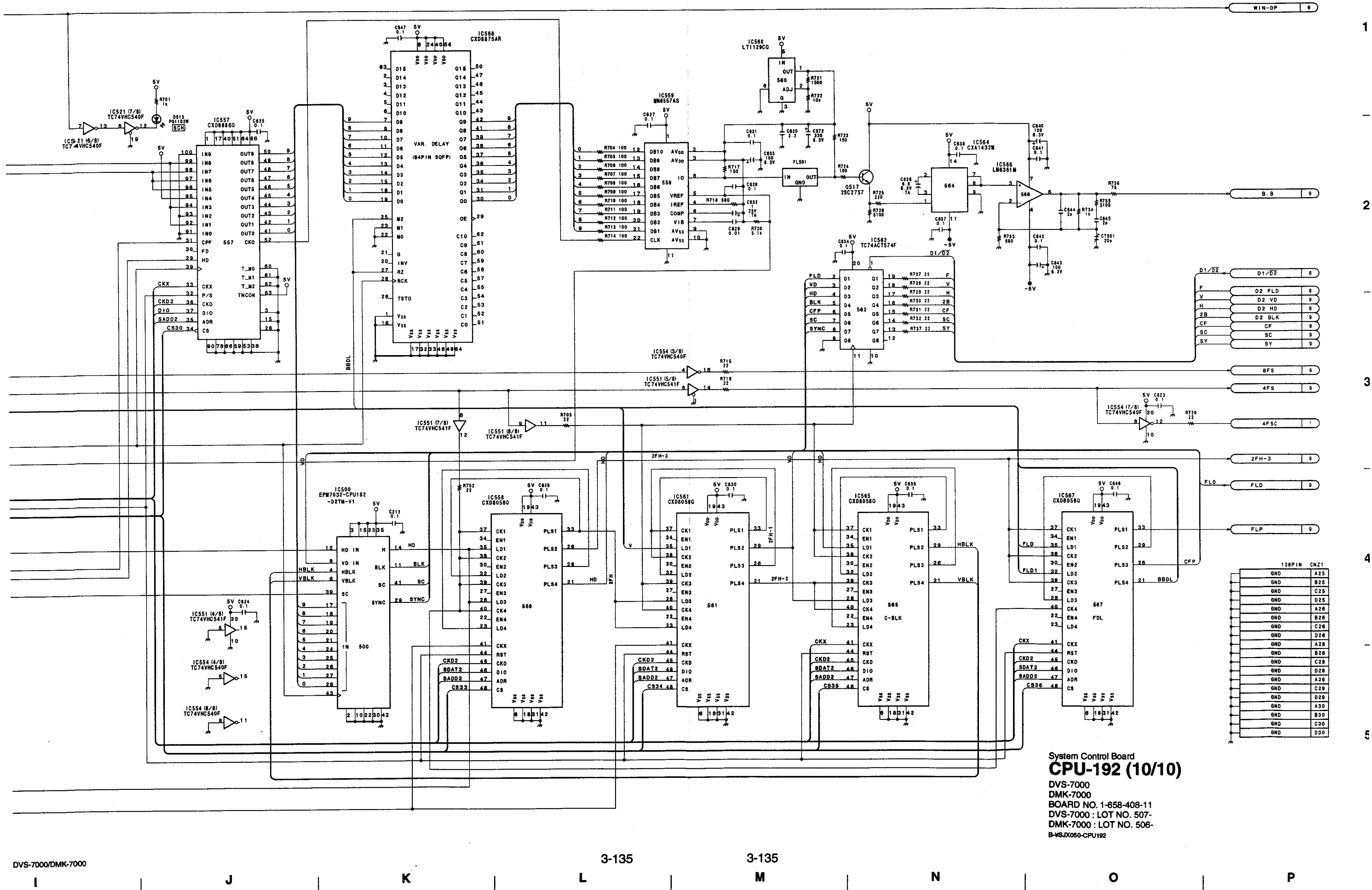

IC522
IC523 HD63021FP
IC525 HD63021FP
IC528 TC74AC574F
IC533
IC534 TC74AC574F
IC536 TC74VHC540F
IC537 TC74VHC541F
IC538 TC74VHC540F
IC539 TC74AC574F
IC540 TC74VHC541F
IC529 CXD8058Q
IC535 CXD8058Q
IC531 TC74AC157F
IC541 CX20158
IC527 TC74ACT74F
REF OUT BB ON
D1/D2
SYSTEM 625=ON 525=OFF
REF ERR
SYNC-ON
NON REF
BB/SYNC
525/625
ODD/EVEN
CFP
VD
HD
FLD
VBLK
D2BLK
D1BLK
SC
SYNC
128PIN CNX1
128PIN CNZ1
REF OUT TP503
Q515 2SA1461
Q516 2SC2757
CS33
CS34
CS35
CS36
CS30
CS31
CS28
CKX
RST
CKD2
SDAT2
SADD2
DIO
REF-BB
D2SYNC
SYNC2
FLD
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-192 (9/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-¥SJX050-CPU192

DVS-7000 (SY) : S/N 10001 and Higher
DMK-7000 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
D2SYNC
SYNC2
(ROUGH)
REF-BB
IC544 LM360M
IC548 LM360M
IC549 DO-50
IC550 DO-50
IC546 DO-50
IC553 CXD1312Q
IC555 (1/2) TC74AC74F
IC555 (2/2) TC74AC74F
VC0503 28.6MHZ
IC551 (3/8) TC74VHC541F
IC551 (2/8) TC74VHC541F
IC551 (6/8) TC74VHC541F
IC542 SN74HC595ANS
IC543 MB88346BPF
IC545 TL431CPS
IC547 (1/2) TL082CPS
IC547 (2/2) TL082CPS
IC503 (5/6) TC74VHC14F
IC552 CXD8058Q
IC554 (2/8) TC74VHC540F
IC554 (1/8) TC74VHC540F
IC554 (5/8) TC74VHC540F
IC554 (6/8) TC74VHC540F
SCH-ADJ
BB-GAIN
FLD
FSC
FLD1
HALT
HD
V
DL-H
DL-FLD1
DIO
CKX
CKD2
SDAT2
SADD2
RST
CS 30
CS 31
CS 28
CS 33
CS 34
CS 35
CS 36
CKX INIT
5V
-5V

CPU-192 (10/10) System Control Board



WIN-OP
IC521 (7/8) TC74VHC540F
IC521 (6/8) TC74VHC540F
D513 PG1102W
SCH
IC557 CXD8886Q
557
IC568 CXD8875AR
VAR. DELAY
(64PIN SQFP)
IC559 MN6557AS
559
IC560 LT1129CQ
560
FL501
Q517 2SC2757
IC564 CXA1432M
564
IC566 LM6361M
566
IC562 TC74ACT574F
562
B.B
D1/D2
D2 FLD
D2 VD
D2 HD
D2 BLK
CF
SC
SY
IC554 (3/8) TC74VHC540F
IC551 (5/8) TC74VHC541F
8FS
4FS
IC554 (7/8) TC74VHC540F
4FSC
IC551 (7/8) TC74VHC541F
IC551 (8/8) TC74VHC541F
2FH-3
FLD
FLP
IC500 EPM7032-CPU192 -D2TM-V1
500
IC551 (4/8) TC74VHC541F
IC554 (4/8) TC74VHC540F
IC554 (8/8) TC74VHC540F
IC558 CXD8058Q
558
IC561 CXD8058Q
561
IC565 CXD8058Q
565
C-BLK
IC567 CXD8058Q
567
FDL
HBLK
VBLK
CFP
BBDL
128PIN CNZ1
GND A25
GND B25
GND C25
GND D25
GND A26
GND B26
GND C26
GND D26
GND A28
GND B28
GND C28
GND D28
GND A29
GND B29
GND C29
GND D29
GND A30
GND B30
GND C30
GND D30
1
2
3
4
5
I
J
K
L
M
N
O
P

System Control Board
CPU-192 (10/10)
DVS-7000
DMK-7000
BOARD NO. 1-658-408-11
DVS-7000 : LOT NO. 507-
DMK-7000 : LOT NO. 506-
B-VSJX050-CPU192

BKDS-7060 (SY) : S/N 10001 and Higher

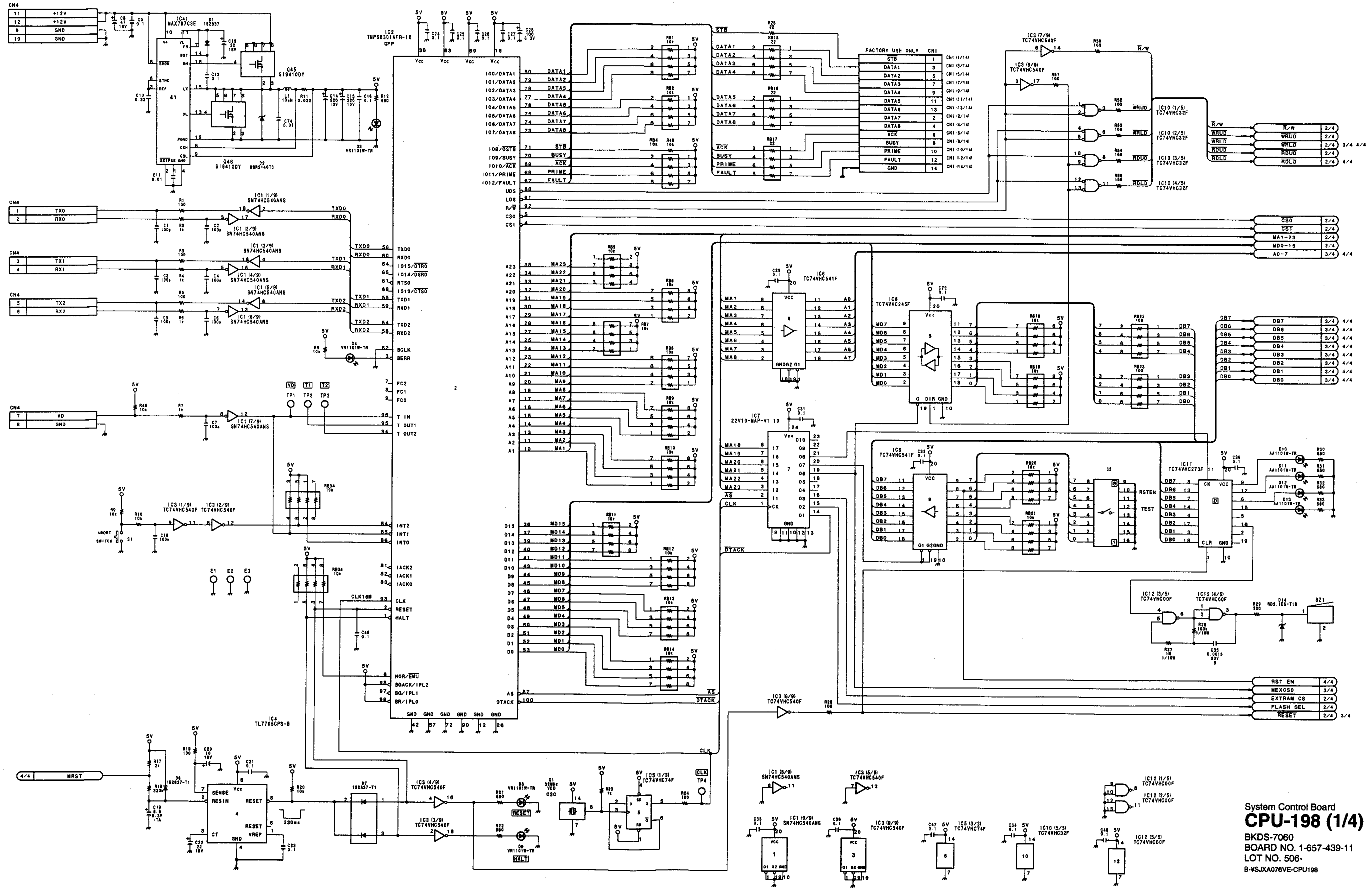
1

2

3

4

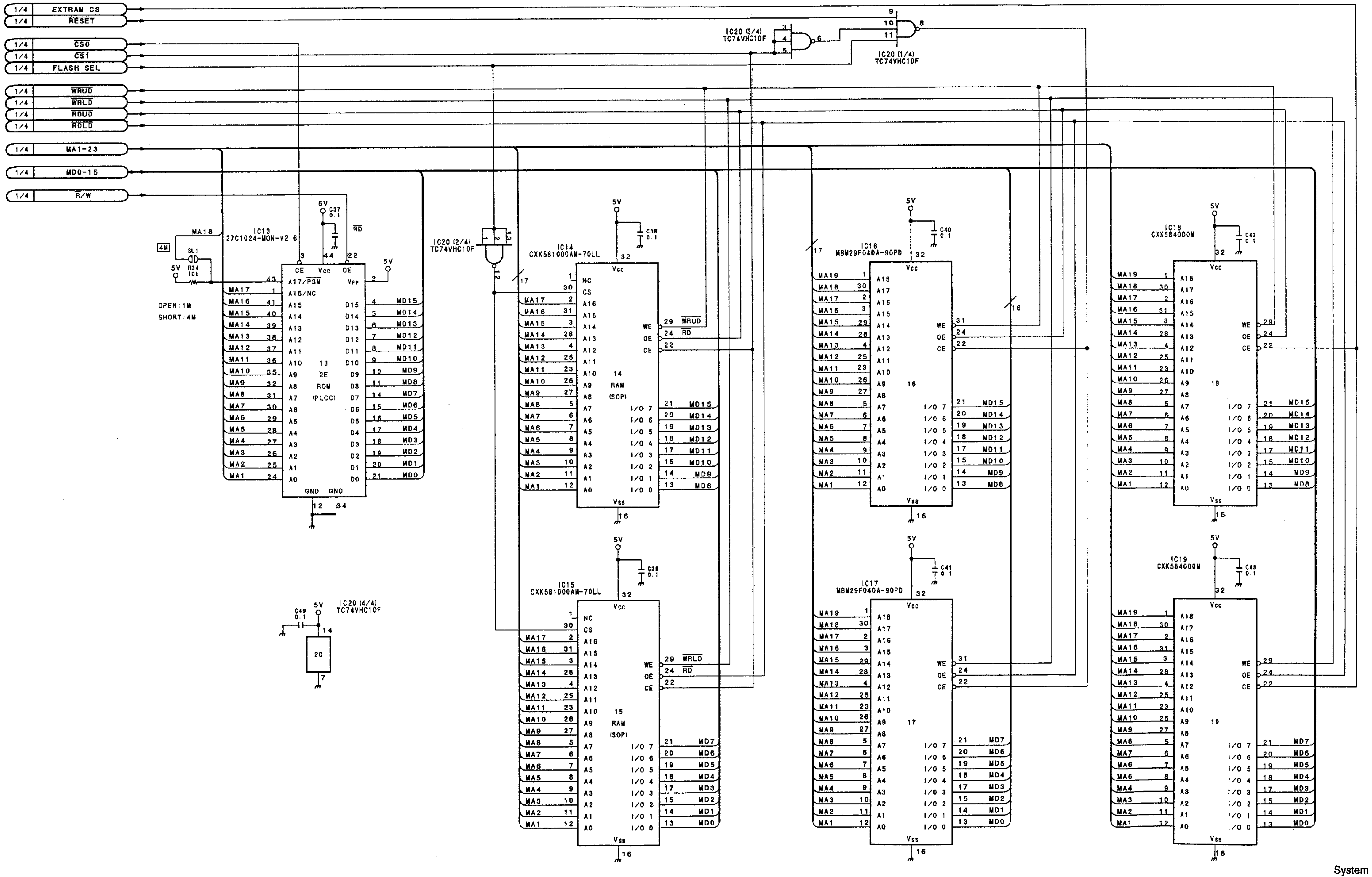
5


CN4
+12V
GND
IC41 MAX797CSE
Q45 SI9410DY
Q46 SI9410DY
IC2 TMP68301AFR-16 QFP
TXD0
RXD0
TXD1
RXD1
TXD2
RXD2
TX0
RX0
TX1
RX1
TX2
RX2
VD
IC1 SN74HC540ANS
IC3 TC74VHC540F
ABORT SWITCH S1
E1
E2
E3
TP1
TP2
TP3
INT2
INT1
INT0
IACK2
IACK1
IACK0
CLK16M
CLK
RESET
HALT
NOR/EMU
BGACK/IPL2
BG/IPL1
BR/IPL0
IO0/DATA1
IO1/DATA2
IO2/DATA3
IO3/DATA4
IO4/DATA5
IO5/DATA6
IO6/DATA7
IO7/DATA8
IO8/STB
IO9/BUSY
IO10/ACK
IO11/PRIME
IO12/FAULT
UDS
LDS
R/W
CS0
CS1
AS
DTACK
FACTORY USE ONLY
CN1
STB
DATA1
DATA2
DATA3
DATA4
DATA5
DATA6
DATA7
DATA8
ACK
BUSY
PRIME
FAULT
GND
IC10 TC74VHC32F
WRUD
WRLD
RDUD
RDLD
MA1-23
MD0-15
A0-7
IC6 TC74VHC541F
IC7 22V10-MAP-V1.10
IC8 TC74VHC245F
IC9 TC74VHC541F
IC11 TC74VHC273F
S2
RSTEN
TEST
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
IC12 TC74VHC00F
BZ1
RST EN
MEXCS0
EXTRAM CS
FLASH SEL
RESET
IC4 TL7705CPS-B
MRST
SENSE
RESIN
RESET
VREF
230ms
X1 33MHz VCO OSC
IC5 TC74VHC74F
TP4
RESET
HALT
2/4
3/4
4/4

System Control Board
CPU-198 (1/4)
BKDS-7060
BOARD NO. 1-657-439-11
LOT NO. 506-
B-¥SJXA076VE-CPU198

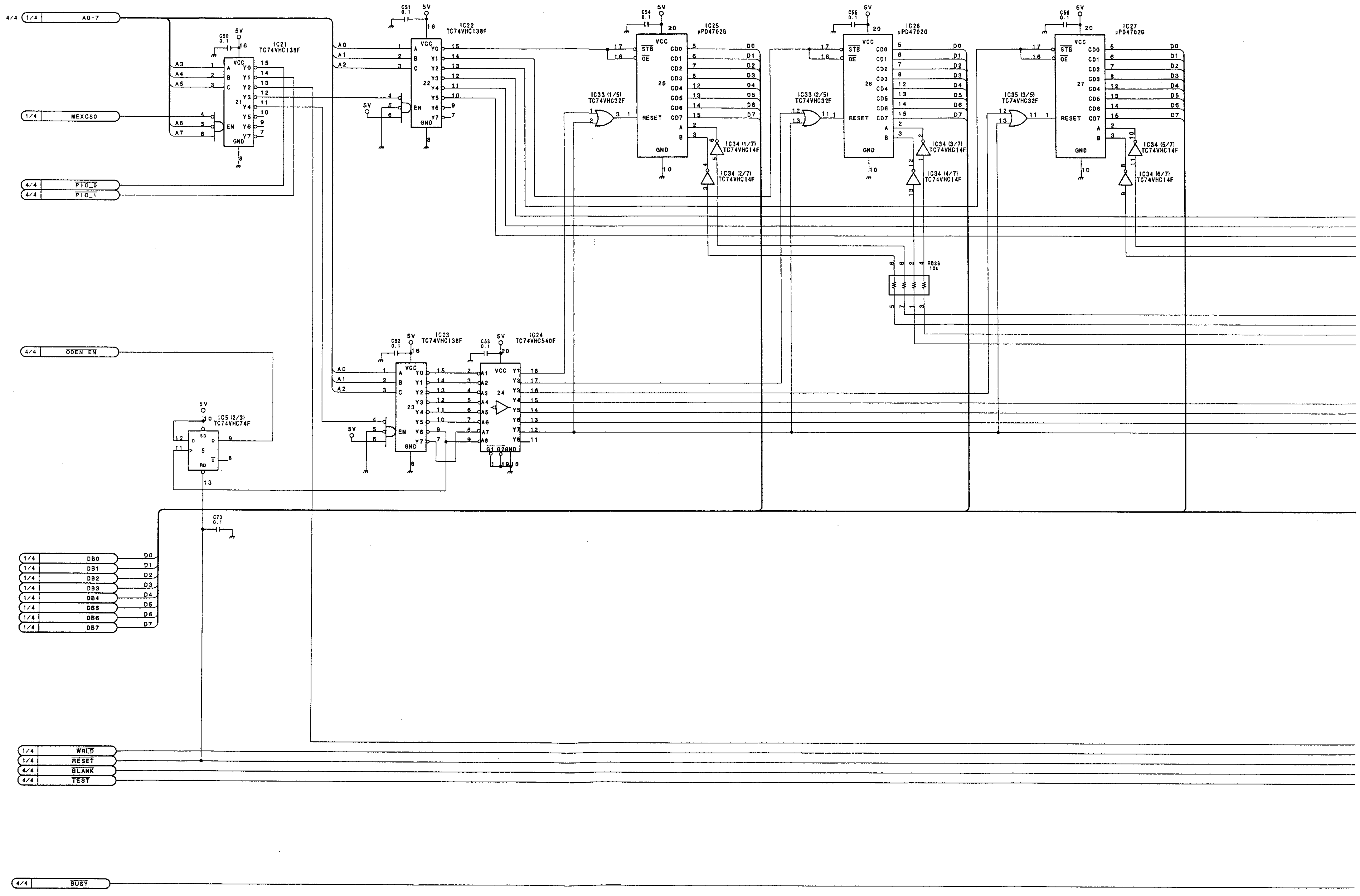
A | B | C | D | E | F | G | H

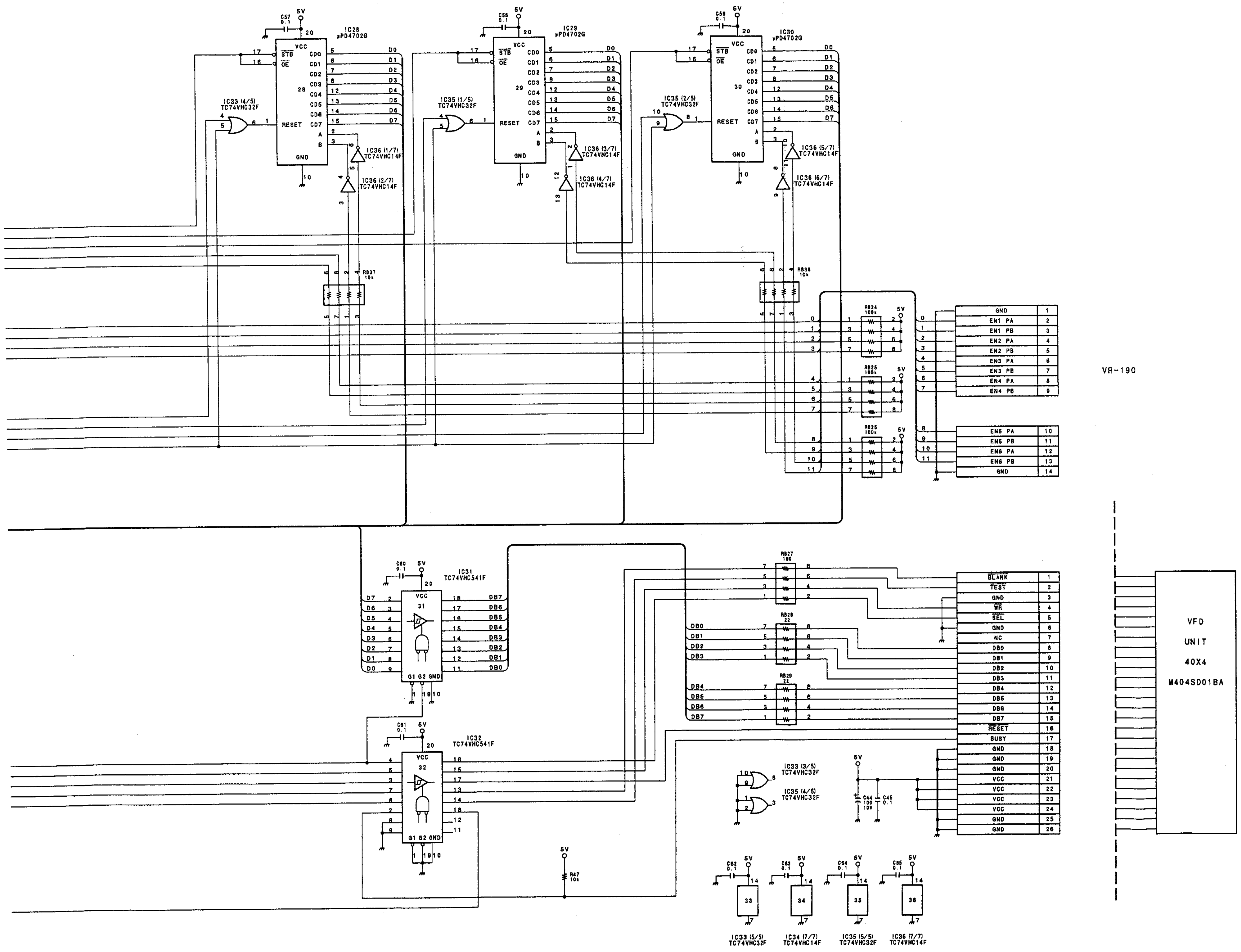
BKDS-7060 (SY) : S/N 10001 and Higher


1/4 EXTRAM CS
1/4 RESET
1/4 CS0
1/4 CS1
1/4 FLASH SEL
1/4 WRUD
1/4 WRLD
1/4 RDUO
1/4 RDLD
1/4 MA1-23
1/4 MD0-15
1/4 R/W
IC20 (3/4) TC74VHC10F
IC20 (1/4) TC74VHC10F
IC20 (2/4) TC74VHC10F
IC20 (4/4) TC74VHC10F
IC13 27C1024-MON-V2.6
13 2E ROM (PLCC)
MA18
4M
SL1
R34 10k
OPEN: 1M
SHORT: 4M
C37 0.1
C38 0.1
C39 0.1
C40 0.1
C41 0.1
C42 0.1
C43 0.1
C49 0.1
IC14 CXK581000AM-70LL
14 RAM (SOP)
IC15 CXK581000AM-70LL
15 RAM (SOP)
IC16 MBM29F040A-90PD
IC17 MBM29F040A-90PD
IC18 CXK584000M
IC19 CXK584000M
5V
Vcc
Vss
WE
OE
CE
GND
Vpp

System Control Board
CPU-198 (2/4)
BKDS-7060
BOARD NO. 1-657-439-11
LOT NO. 506-
B-¥SJXA076VE-CPU198

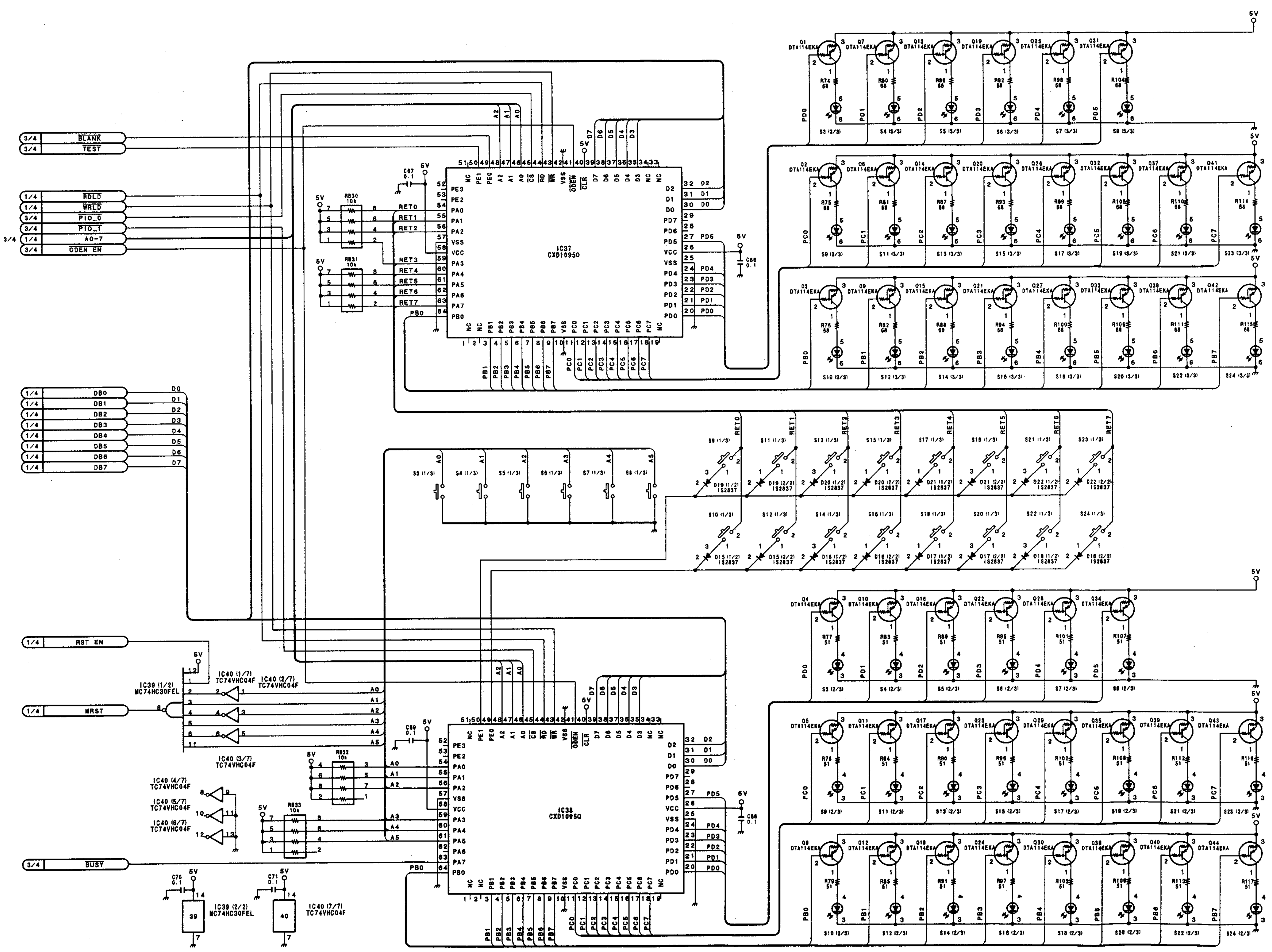
BKDS-7060 (SY) : S/N 10001 and Higher


A0-7
MEXCS0
PIO_0
PIO_1
ODEN EN
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
WRLD
RESET
BLANK
TEST
BUSY
IC21 TC74VHC138F
IC22 TC74VHC138F
IC23 TC74VHC138F
IC24 TC74VHC540F
IC25 μPD4702G
IC26 μPD4702G
IC27 μPD4702G
IC33 (1/5) TC74VHC32F
IC33 (2/5) TC74VHC32F
IC35 (3/5) TC74VHC32F
IC34 (1/7) TC74VHC14F
IC34 (2/7) TC74VHC14F
IC34 (3/7) TC74VHC14F
IC34 (4/7) TC74VHC14F
IC34 (5/7) TC74VHC14F
IC34 (6/7) TC74VHC14F
IC5 (2/3) TC74VHC74F
RB36 10k
C50 0.1
C51 0.1
C52 0.1
C53 0.1
C54 0.1
C55 0.1
C56 0.1
C73 0.1
5V


IC28
μPD4702G
IC29
μPD4702G
IC30
μPD4702G
C57 0.1
C58 0.1
C59 0.1
5V
VCC
STB
OE
RESET
CD0
CD1
CD2
CD3
CD4
CD5
CD6
CD7
A
B
GND
D0
D1
D2
D3
D4
D5
D6
D7
IC33 (4/5) TC74VHC32F
IC35 (1/5) TC74VHC32F
IC35 (2/5) TC74VHC32F
IC36 (1/7) TC74VHC14F
IC36 (2/7) TC74VHC14F
IC36 (3/7) TC74VHC14F
IC36 (4/7) TC74VHC14F
IC36 (5/7) TC74VHC14F
IC36 (6/7) TC74VHC14F
RB37 10k
RB38 10k
RB24 100k
RB25 100k
RB26 100k
GND 1
EN1 PA 2
EN1 PB 3
EN2 PA 4
EN2 PB 5
EN3 PA 6
EN3 PB 7
EN4 PA 8
EN4 PB 9
EN5 PA 10
EN5 PB 11
EN6 PA 12
EN6 PB 13
GND 14
VR-190
IC31 TC74VHC541F
IC32 TC74VHC541F
C60 0.1
C61 0.1
G1 G2 GND
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
RB27 100
RB28 22
RB29 22
BLANK 1
TEST 2
GND 3
WR 4
SEL 5
GND 6
NC 7
DB0 8
DB1 9
DB2 10
DB3 11
DB4 12
DB5 13
DB6 14
DB7 15
RESET 16
BUSY 17
GND 18
GND 19
GND 20
VCC 21
VCC 22
VCC 23
VCC 24
GND 25
GND 26
VFD UNIT 40X4 M404SD01BA
IC33 (3/5) TC74VHC32F
IC35 (4/5) TC74VHC32F
C44 100 10V
C45 0.1
R47 10k
C62 0.1
C63 0.1
C64 0.1
C65 0.1
33
34
35
36
IC33 (5/5) TC74VHC32F
IC34 (7/7) TC74VHC14F
IC35 (5/5) TC74VHC32F
IC36 (7/7) TC74VHC14F
1
2
3
4
5
I
J
K
L
M
N
O
P

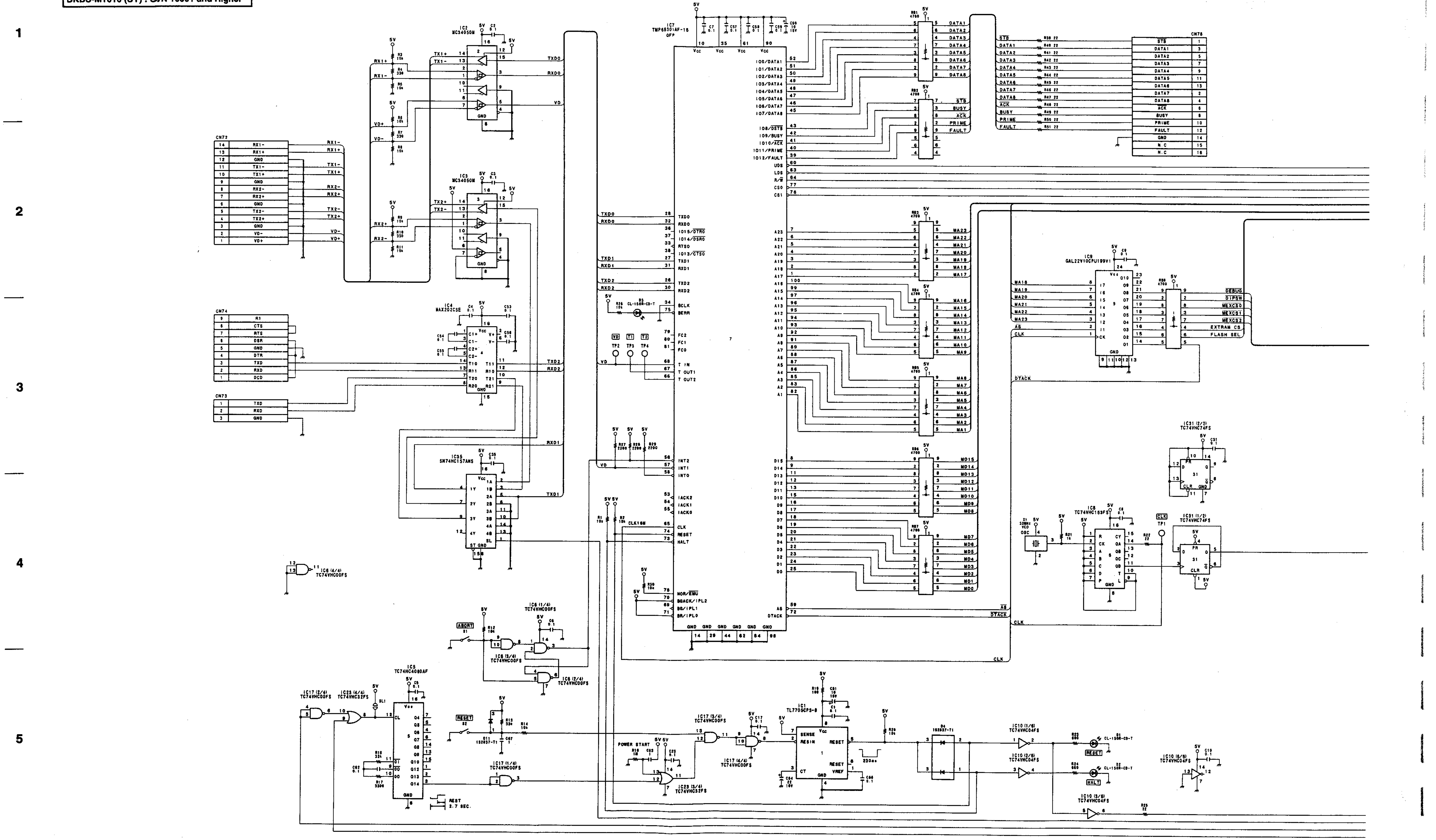
System Control Board
CPU-198 (3/4)
BKDS-7060
BOARD NO. 1-657-439-11
LOT NO. 506-
B-¥SJXA076VE-CPU198

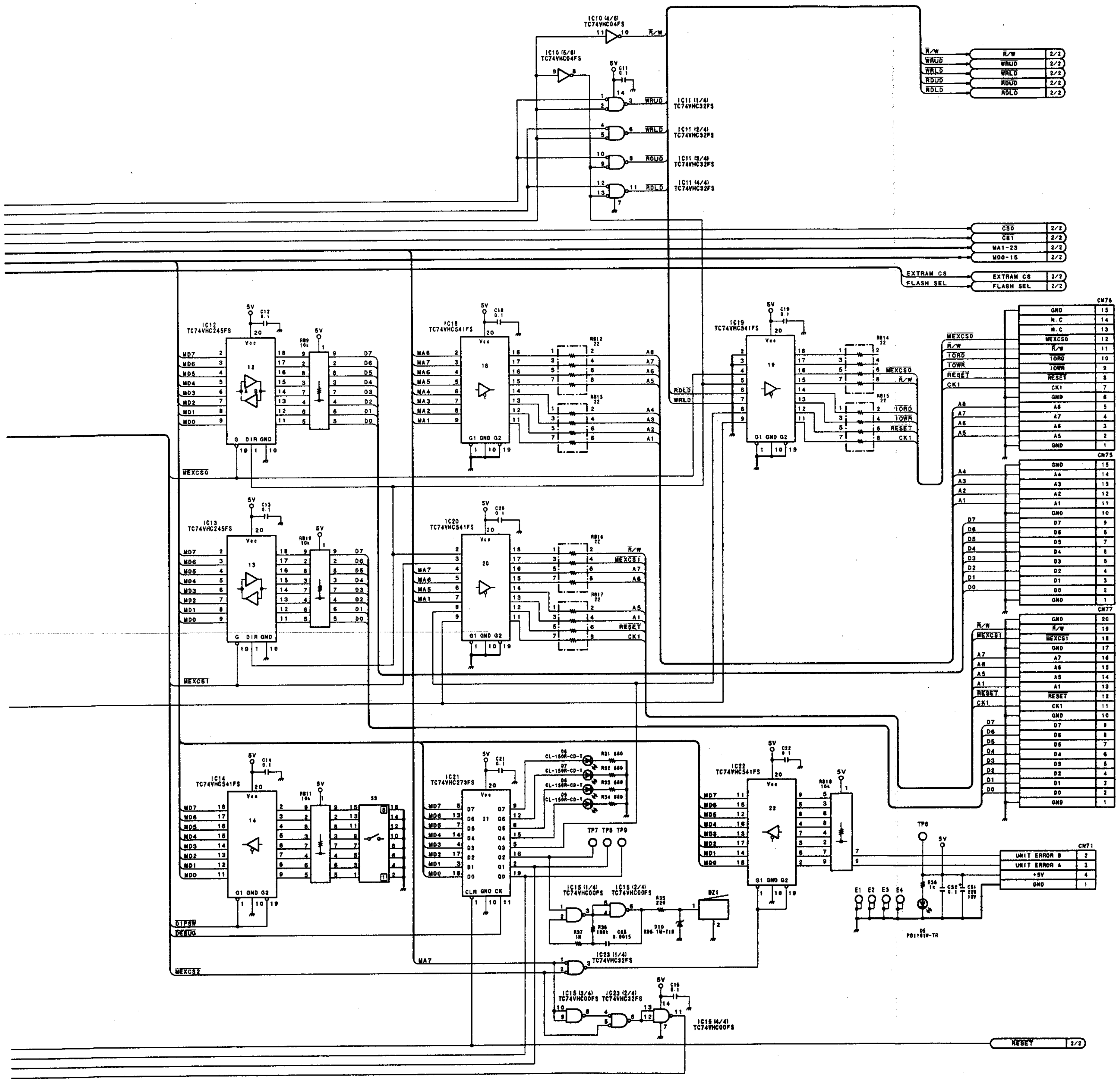
BKDS-7060 (SY) : S/N 10001 and Higher


3/4 BLANK
3/4 TEST
1/4 RDLD
1/4 WRLD
3/4 PIO_0
3/4 PIO_1
3/4 1/4 A0-7
3/4 ODEN EN
1/4 DB0
1/4 DB1
1/4 DB2
1/4 DB3
1/4 DB4
1/4 DB5
1/4 DB6
1/4 DB7
1/4 RST EN
1/4 MRST
3/4 BUSY
IC37 CXD10950
IC38 CXD10950
IC39 (1/2) MC74HC30FEL
IC39 (2/2) MC74HC30FEL
IC40 (1/7) TC74VHC04F
IC40 (2/7) TC74VHC04F
IC40 (3/7) TC74VHC04F
IC40 (4/7) TC74VHC04F
IC40 (5/7) TC74VHC04F
IC40 (6/7) TC74VHC04F
IC40 (7/7) TC74VHC04F
RB30 10k
RB31 10k
RB32 10k
RB33 10k
C67 0.1
C68 0.1
C69 0.1
C70 0.1
C71 0.1
RET0
RET1
RET2
RET3
RET4
RET5
RET6
RET7
DTA114EKA
D19 1S2837
5V

System Control Board
CPU-198 (4/4)
BKDS-7060
BOARD NO. 1-657-439-11
LOT NO. 506-
B-¥SJXA076VE-CPU198

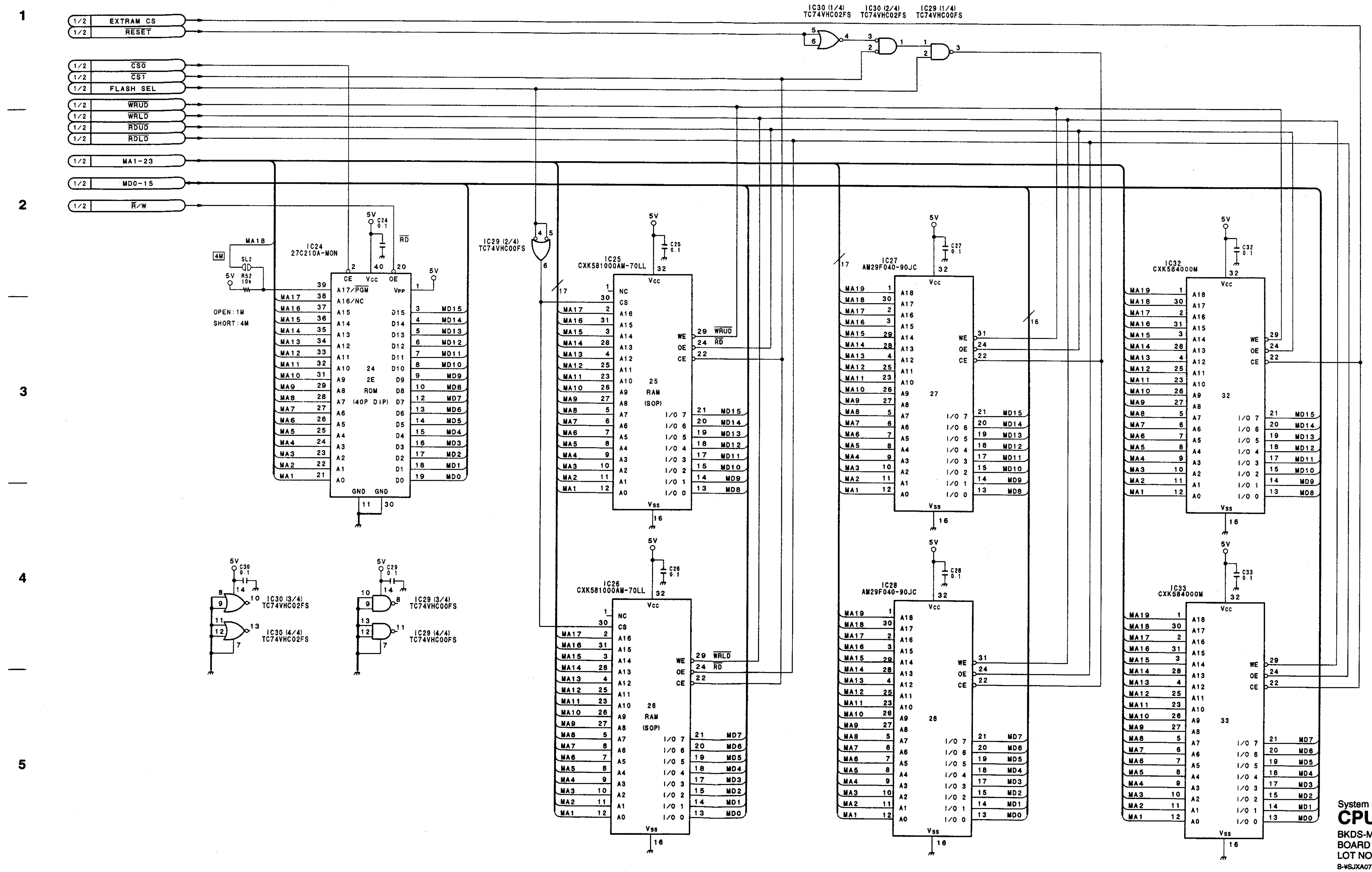
BKDS-M1010 (SY) : S/N 10001 and Higher


IC7 TMP68301AF-16
IC2 MC34050M
IC3 MC34050M
IC4 MAX202CSE
IC35 SN74HC157ANS
IC9 GAL22V10CPU199V1
IC5 TC74HC4060AF
IC1 TL7705CPS-8
IC8 TC74VHC163FS
IC31 TC74VHC74FS
CN72
CN74
CN73
CN76
ABORT
RESET
HALT
POWER START
CLK
DEBUG
EXTRAM CS
FLASH SEL
RESET 2.7 SEC.
230ms
1
2
3
4
5
A
B
C
D
E
F
G
H


IC10 (4/6) TC74VHC04FS
IC10 (5/6) TC74VHC04FS
IC11 (1/4) TC74VHC32FS
IC11 (2/4) TC74VHC32FS
IC11 (3/4) TC74VHC32FS
IC11 (4/4) TC74VHC32FS
R/W
WRUD
WRLD
RDUD
RDLD
CS0
CS1
MA1-23
MD0-15
EXTRAM CS
FLASH SEL
2/2
IC12 TC74VHC245FS
IC18 TC74VHC541FS
IC19 TC74VHC541FS
IC13 TC74VHC245FS
IC20 TC74VHC541FS
IC14 TC74VHC541FS
IC21 TC74VHC273FS
IC22 TC74VHC541FS
IC15 (1/4) TC74VHC00FS
IC15 (2/4) TC74VHC00FS
IC15 (3/4) TC74VHC00FS
IC15 (4/4) TC74VHC00FS
IC23 (1/4) TC74VHC32FS
IC23 (2/4) TC74VHC32FS
MEXCS0
MEXCS1
MEXCS2
DIPSW
DEBUG
MA7
IORD
IOWR
RESET
CK1
S3
BZ1
TP6
TP7 TP8 TP9
E1 E2 E3 E4
CL-150R-CD-T
R31 680
R32 680
R33 680
R34 680
R38 1k
C52 0.1
C51 220 10V
D5 PG1101W-TR
5V
CN76
GND 15
N.C 14
N.C 13
MEXCS0 12
R/W 11
IORD 10
IOWR 9
RESET 8
CK1 7
GND 6
A8 5
A7 4
A6 3
A5 2
GND 1
CN75
GND 15
A4 14
A3 13
A2 12
A1 11
GND 10
D7 9
D6 8
D5 7
D4 6
D3 5
D2 4
D1 3
D0 2
GND 1
CN77
GND 20
R/W 19
MEXCS1 18
GND 17
A7 16
A6 15
A5 14
A1 13
RESET 12
CK1 11
GND 10
D7 9
D6 8
D5 7
D4 6
D3 5
D2 4
D1 3
D0 2
GND 1
CN71
UNIT ERROR B 2
UNIT ERROR A 3
+5V 4
GND 1

System Control Board
CPU-199 (1/2)
BKDS-M1010
BOARD NO. 1-658-381-11
LOT NO. 506-
B-¥SJXA079-CPU199

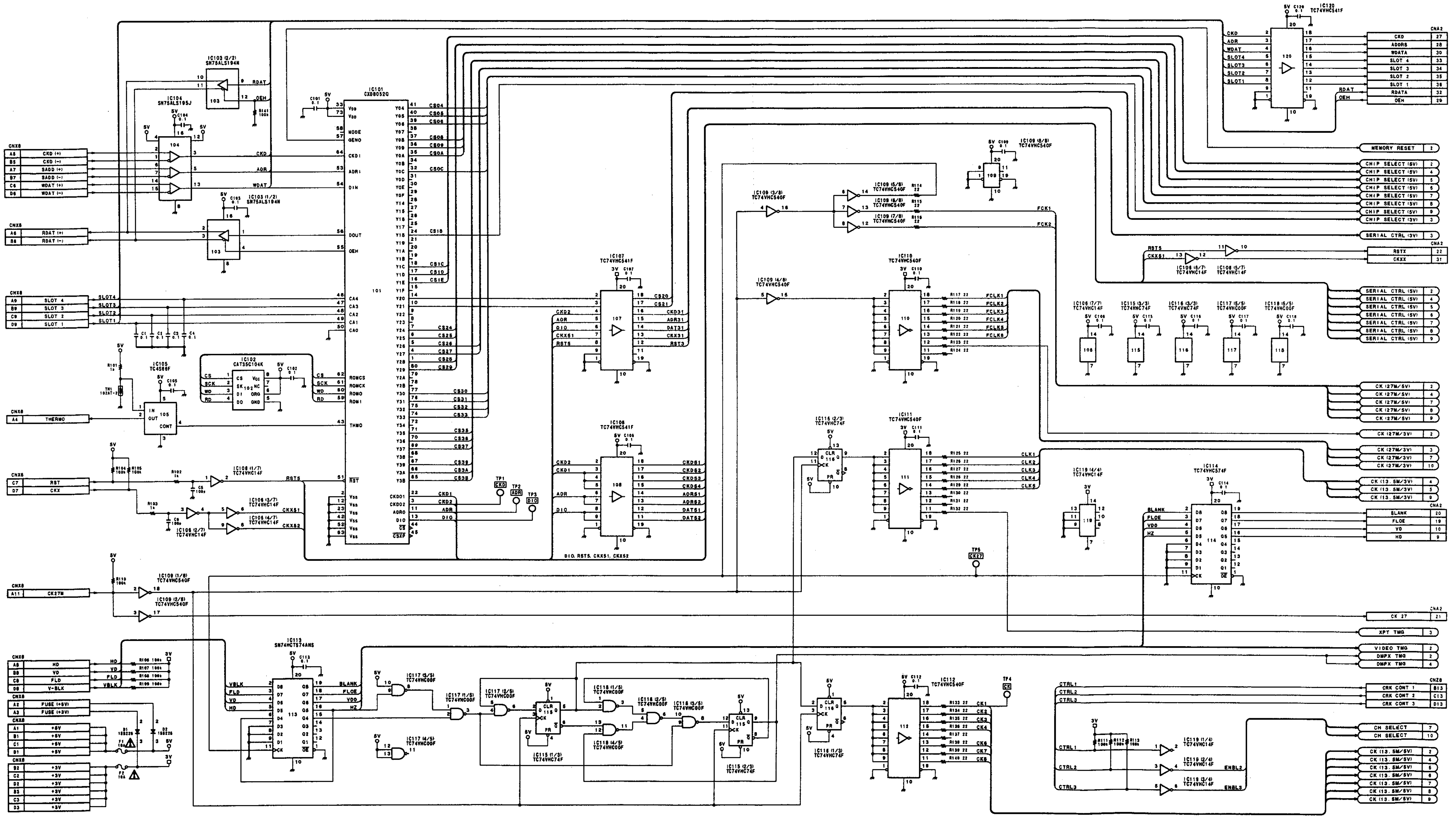
BKDS-M1010 (SY) : S/N 10001 and Higher


1
2
3
4
5
1/2 EXTRAM CS
1/2 RESET
1/2 CS0
1/2 CS1
1/2 FLASH SEL
1/2 WRUD
1/2 WRLD
1/2 RDUD
1/2 RDLD
1/2 MA1-23
1/2 MD0-15
1/2 R/W
IC30 (1/4) TC74VHC02FS
IC30 (2/4) TC74VHC02FS
IC29 (1/4) TC74VHC00FS
IC29 (2/4) TC74VHC00FS
IC24 27C210A-MON
ROM (40P DIP)
MA18
4M
SL2
R52 10k
OPEN : 1M
SHORT : 4M
IC25 CXK581000AM-70LL
RAM (SOP)
IC26 CXK581000AM-70LL
IC27 AM29F040-90JC
IC28 AM29F040-90JC
IC32 CXK584000M
IC33 CXK584000M
5V
C24 0.1
C25 0.1
C26 0.1
C27 0.1
C28 0.1
C29 0.1
C30 0.1
C32 0.1
C33 0.1
IC30 (3/4) TC74VHC02FS
IC30 (4/4) TC74VHC02FS
IC29 (3/4) TC74VHC00FS
IC29 (4/4) TC74VHC00FS
MA1–MA19
MD0–MD15
Vcc
Vss
GND
WE
OE
CE
I/O 0–I/O 7

System Control Board
CPU-199 (2/2)
BKDS-M1010
BOARD NO. 1-658-381-11
LOT NO. 506-
B-¥SJXA079-CPU199

A B C D E F G H

BKDS-2031 (SY) : S/N 10001 and Higher

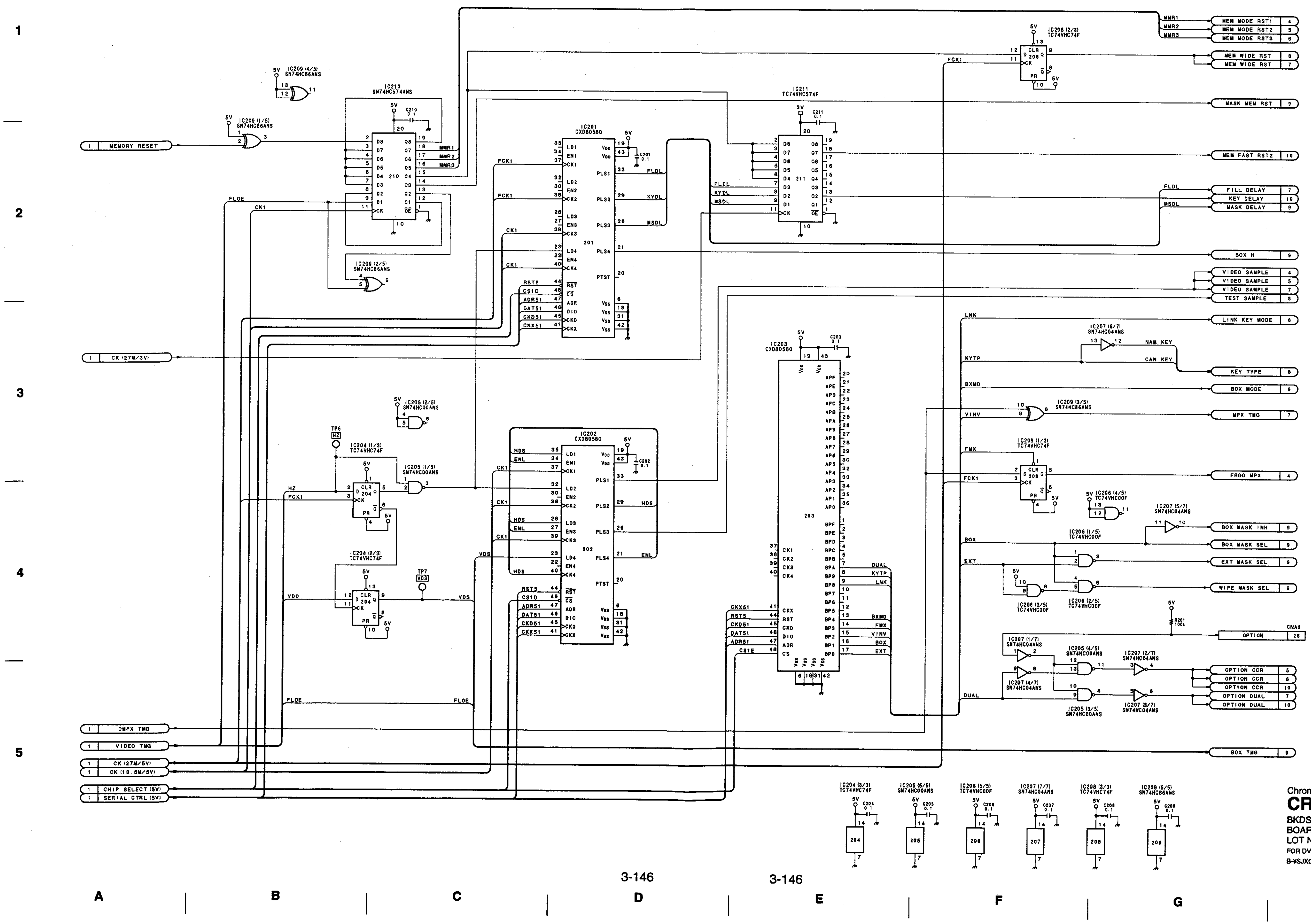

IC101 CXD8052Q
IC102 CAT35C104K
IC103 SN75ALS194N
IC104 SN75ALS195J
IC105 TC4S66F
IC106 TC74VHC14F
IC107 TC74VHC541F
IC108 TC74VHC541F
IC109 TC74VHC540F
IC110 TC74VHC540F
IC111 TC74VHC540F
IC112 TC74VHC540F
IC113 SN74HCT574ANS
IC114 TC74VHC574F
IC115 TC74VHC74F
IC116 TC74VHC74F
IC117 TC74VHC00F
IC118 TC74VHC00F
IC119 TC74VHC14F
IC120 TC74VHC541F
CNX8
CKD (+)
CKD (−)
SADD (+)
SADD (−)
WDAT (+)
WDAT (−)
RDAT (+)
RDAT (−)
SLOT 4
SLOT 3
SLOT 2
SLOT 1
THERMO
RST
CKX
CK27M
HD
VD
FLD
V-BLK
FUSE (+5V)
FUSE (+3V)
+5V
+3V
CNA2
CKD
ADDRS
WDATA
RDATA
OEH
MEMORY RESET
CHIP SELECT (5V)
CHIP SELECT (3V)
SERIAL CTRL (3V)
SERIAL CTRL (5V)
RSTX
CKXX
CK (27M/5V)
CK (27M/3V)
CK (13.5M/3V)
CK (13.5M/5V)
BLANK
FLOE
VD
HD
CK 27
XPT TMG
VIDEO TMG
DMPX TMG
CNZ8
CRK CONT 1
CRK CONT 2
CRK CONT 3
CH SELECT
TP1 CKD
TP2 ADR
TP3 DIO
TP4 CK
TP5 CK27
DIO, RSTS, CKXS1, CKXS2
1
2
3
4
5

Chromakey Board

CRK-10 (1/10)

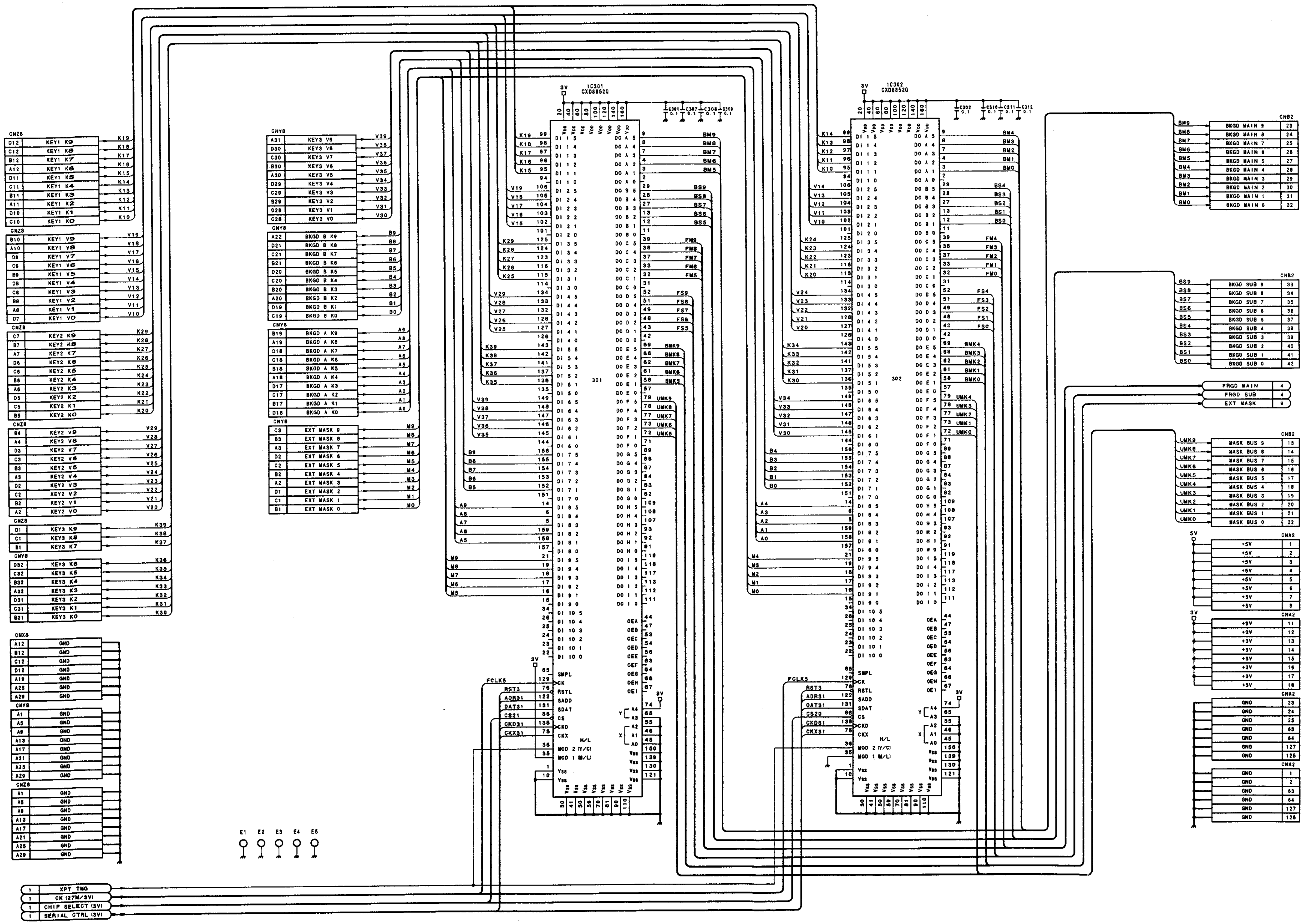
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-WSJX003-CRK10

BKDS-2031 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
MEMORY RESET 1
CK (27M/3V) 1
DMPX TMG 1
VIDEO TMG 1
CK (27M/5V) 1
CK (13.5M/5V) 1
CHIP SELECT (5V) 1
SERIAL CTRL (5V) 1
IC209 (1/5) SN74HC86ANS
IC209 (4/5) SN74HC86ANS
IC209 (2/5) SN74HC86ANS
IC209 (3/5) SN74HC86ANS
IC210 SN74HC574ANS
C210 0.1
IC201 CXD8058Q
C201 0.1
IC202 CXD8058Q
C202 0.1
IC203 CXD8058Q
C203 0.1
IC211 TC74VHC574F
C211 0.1
IC204 (1/3) TC74VHC74F
IC204 (2/3) TC74VHC74F
IC205 (1/5) SN74HC00ANS
IC205 (2/5) SN74HC00ANS
IC205 (3/5) SN74HC00ANS
IC205 (4/5) SN74HC00ANS
IC206 (1/5) TC74VHC00F
IC206 (2/5) TC74VHC00F
IC206 (3/5) TC74VHC00F
IC206 (4/5) TC74VHC00F
IC207 (1/7) SN74HC04ANS
IC207 (2/7) SN74HC04ANS
IC207 (3/7) SN74HC04ANS
IC207 (4/7) SN74HC04ANS
IC207 (5/7) SN74HC04ANS
IC207 (6/7) SN74HC04ANS
IC208 (1/3) TC74VHC74F
IC208 (2/3) TC74VHC74F
TP6 HZ
TP7 VDS
R201 100k
MMR1
MMR2
MMR3
FLOE
CK1
FCK1
FLDL
KYDL
MSDL
RST5
CS1C
ADR51
DAT51
CKD51
CKX51
HDS
ENL
VDS
VDO
HZ
NAM KEY
CAN KEY
LNK
KYTP
BXMD
VINV
FMX
BOX
EXT
DUAL
CS1E
CS1D
MEM MODE RST1 4
MEM MODE RST2 5
MEM MODE RST3 6
MEM WIDE RST 8
MEM WIDE RST 7
MASK MEM RST 9
MEM FAST RST2 10
FILL DELAY 7
KEY DELAY 10
MASK DELAY 9
BOX H 9
VIDEO SAMPLE 4
VIDEO SAMPLE 5
VIDEO SAMPLE 7
TEST SAMPLE 8
LINK KEY MODE 8
KEY TYPE 8
BOX MODE 9
MPX TMG 7
FRGD MPX 4
BOX MASK INH 9
BOX MASK SEL 9
EXT MASK SEL 9
WIPE MASK SEL 9
CNA2
OPTION 26
OPTION CCR 5
OPTION CCR 6
OPTION CCR 10
OPTION DUAL 7
OPTION DUAL 10
BOX TMG 9
IC204 (3/3) TC74VHC74F
IC205 (5/5) SN74HC00ANS
IC206 (5/5) TC74VHC00F
IC207 (7/7) SN74HC04ANS
IC208 (3/3) TC74VHC74F
IC209 (5/5) SN74HC86ANS
C204 0.1
C205 0.1
C206 0.1
C207 0.1
C208 0.1
C209 0.1
204
205
206
207
208
209
5V
3V

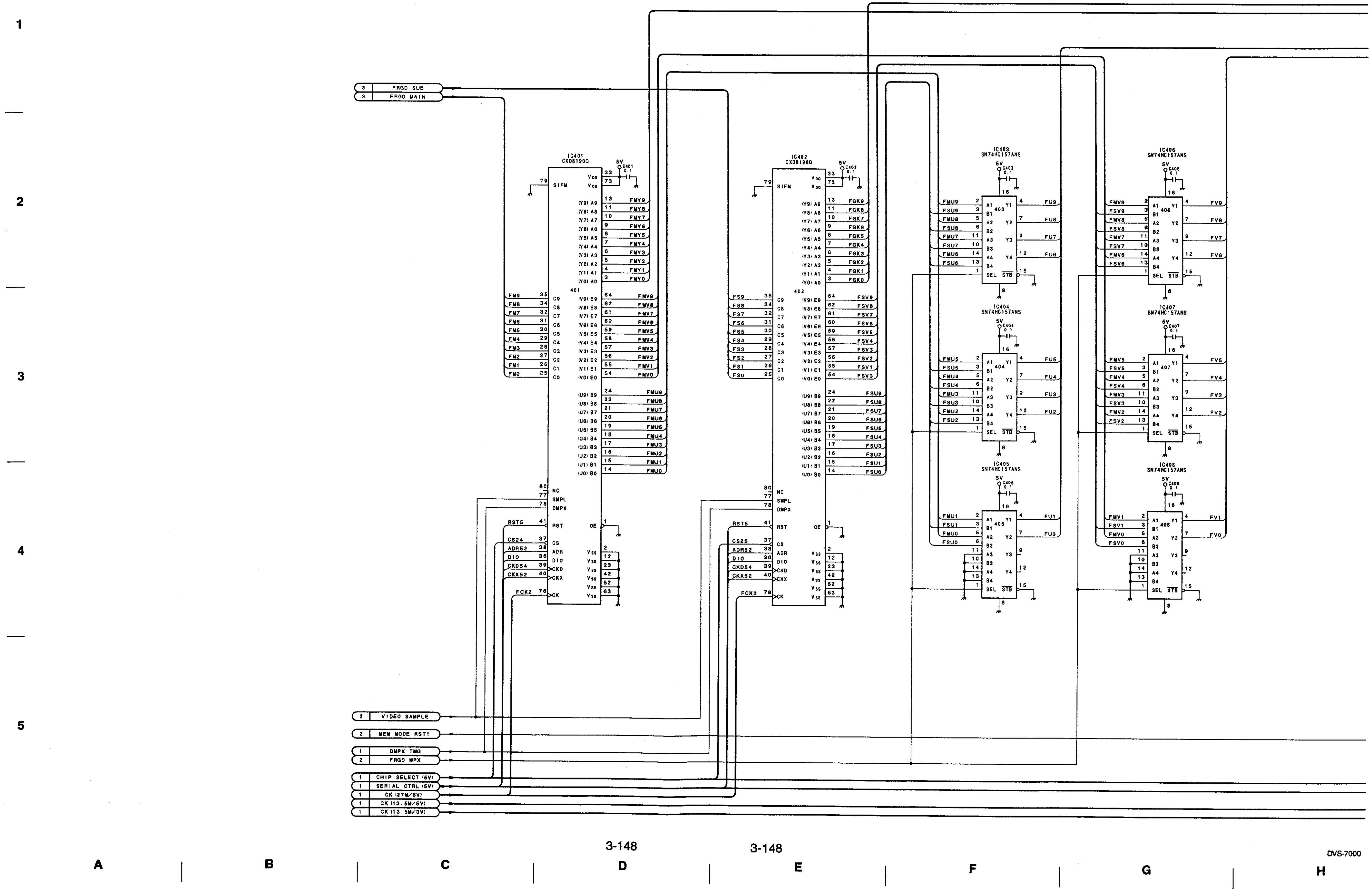
Chromakey Board
CRK-10 (2/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

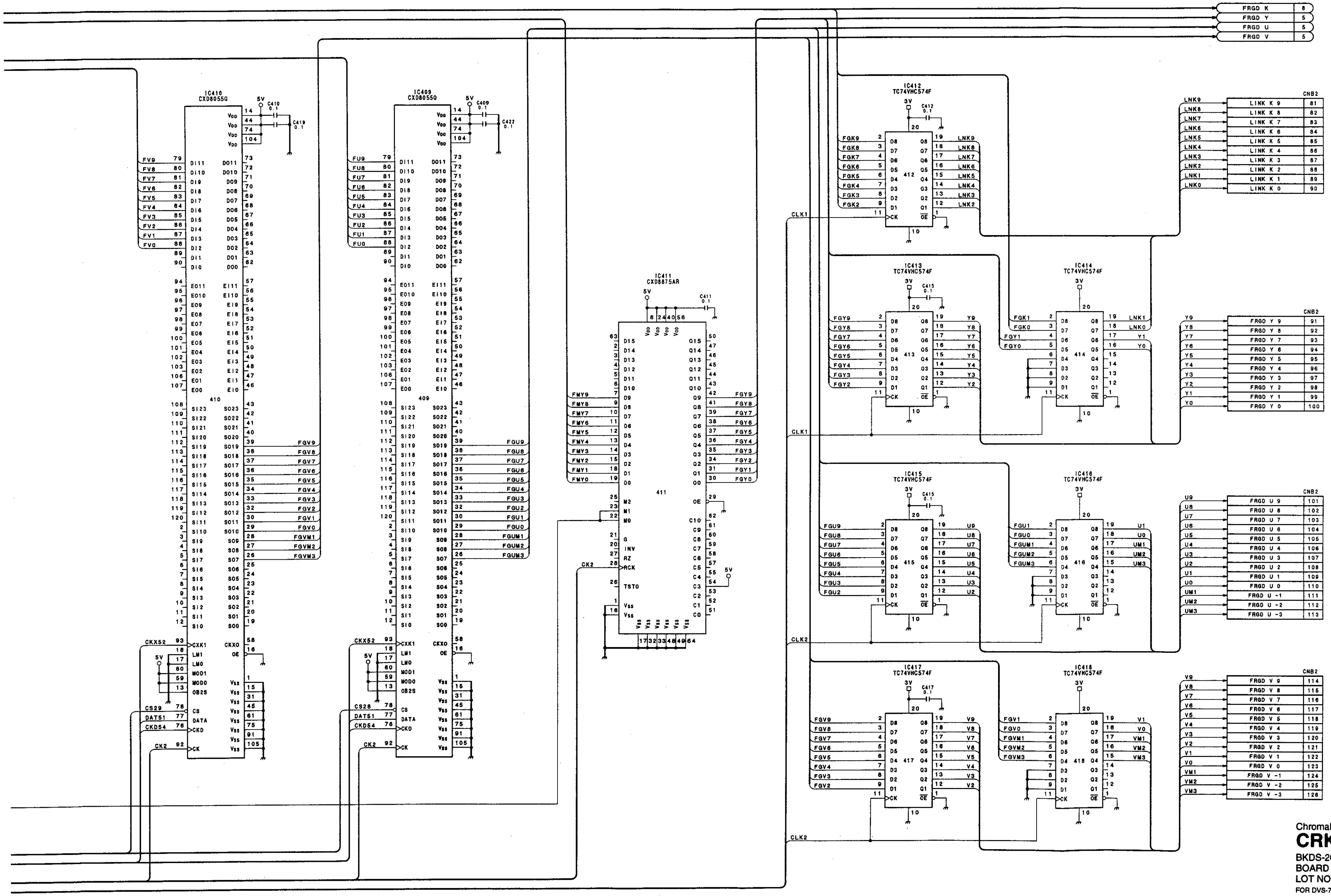
BKDS-2031 (SY) : S/N 10001 and Higher


IC301
CXD8852Q
IC302
CXD8852Q
3V
5V
CNZ8
CNY8
CNB2
CNA2
KEY1 K9
KEY1 K8
KEY1 K7
KEY1 K6
KEY1 K5
KEY1 K4
KEY1 K3
KEY1 K2
KEY1 K1
KEY1 K0
KEY1 V9
KEY1 V0
KEY2 K9
KEY2 K0
KEY2 V9
KEY2 V0
KEY3 K9
KEY3 K0
KEY3 V9
KEY3 V0
BKGD B K9
BKGD B K0
BKGD A K9
BKGD A K0
EXT MASK 9
EXT MASK 0
GND
BKGD MAIN 9
BKGD MAIN 0
BKGD SUB 9
BKGD SUB 0
FRGD MAIN
FRGD SUB
EXT MASK
MASK BUS 9
MASK BUS 0
+5V
+3V
FCLK5
RST3
ADR31
DAT31
CS21
CS20
CKD31
CKX31
SMPL
RSTL
SADD
SDAT
CS
CKD
CKX
H/L
MOD 2 (Y/C)
MOD 1 (M/L)
Vss
Vdd
C301 0.1
C307 0.1
C308 0.1
C309 0.1
C302 0.1
C310 0.1
C311 0.1
C312 0.1
E1
E2
E3
E4
E5
XPT TMG
CK (27M/3V)
CHIP SELECT (3V)
SERIAL CTRL (3V)
1
2
3
4
5

Chromakey Board
CRK-10 (3/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

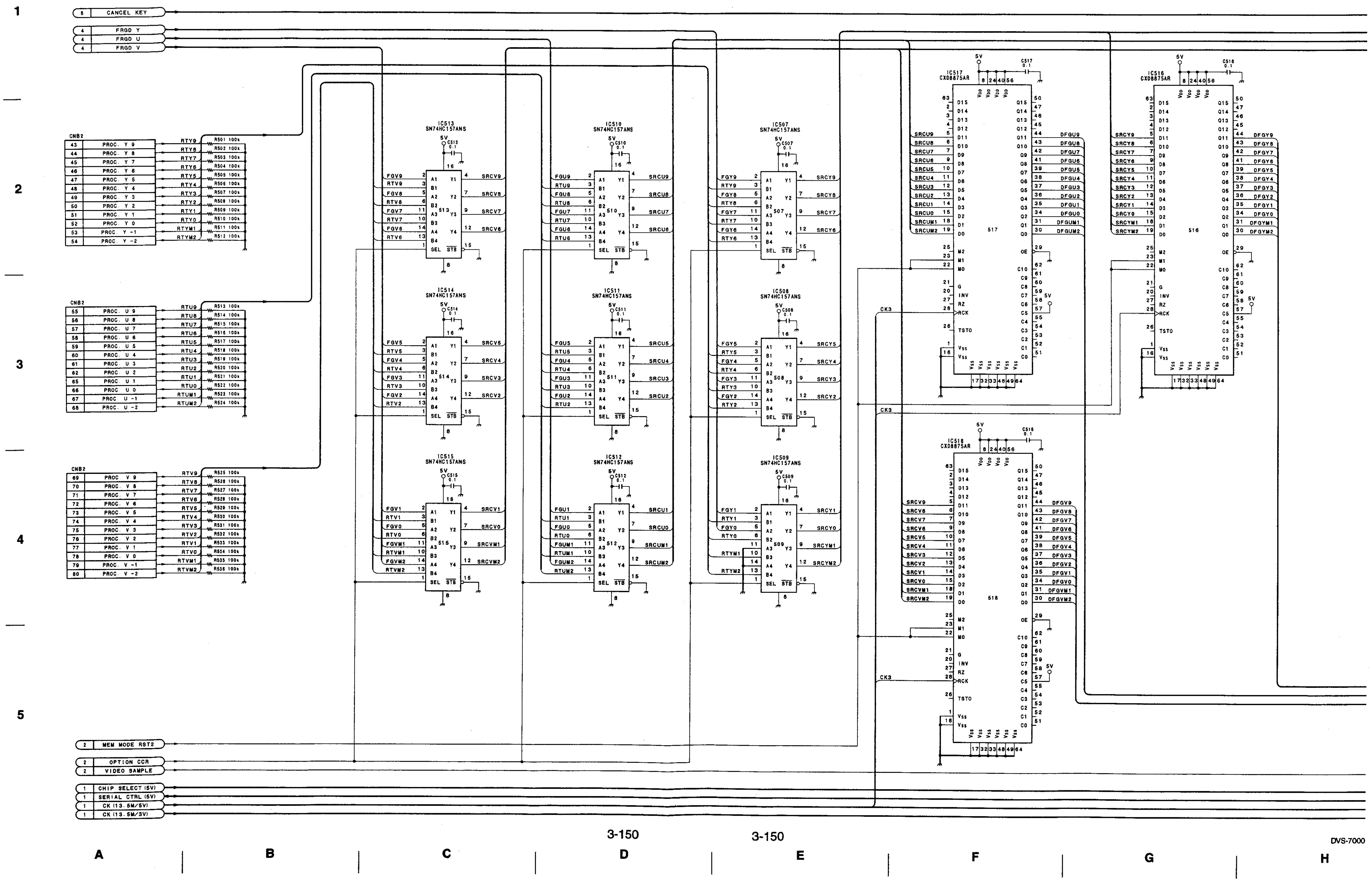
BKDS-2031 (SY) : S/N 10001 and Higher

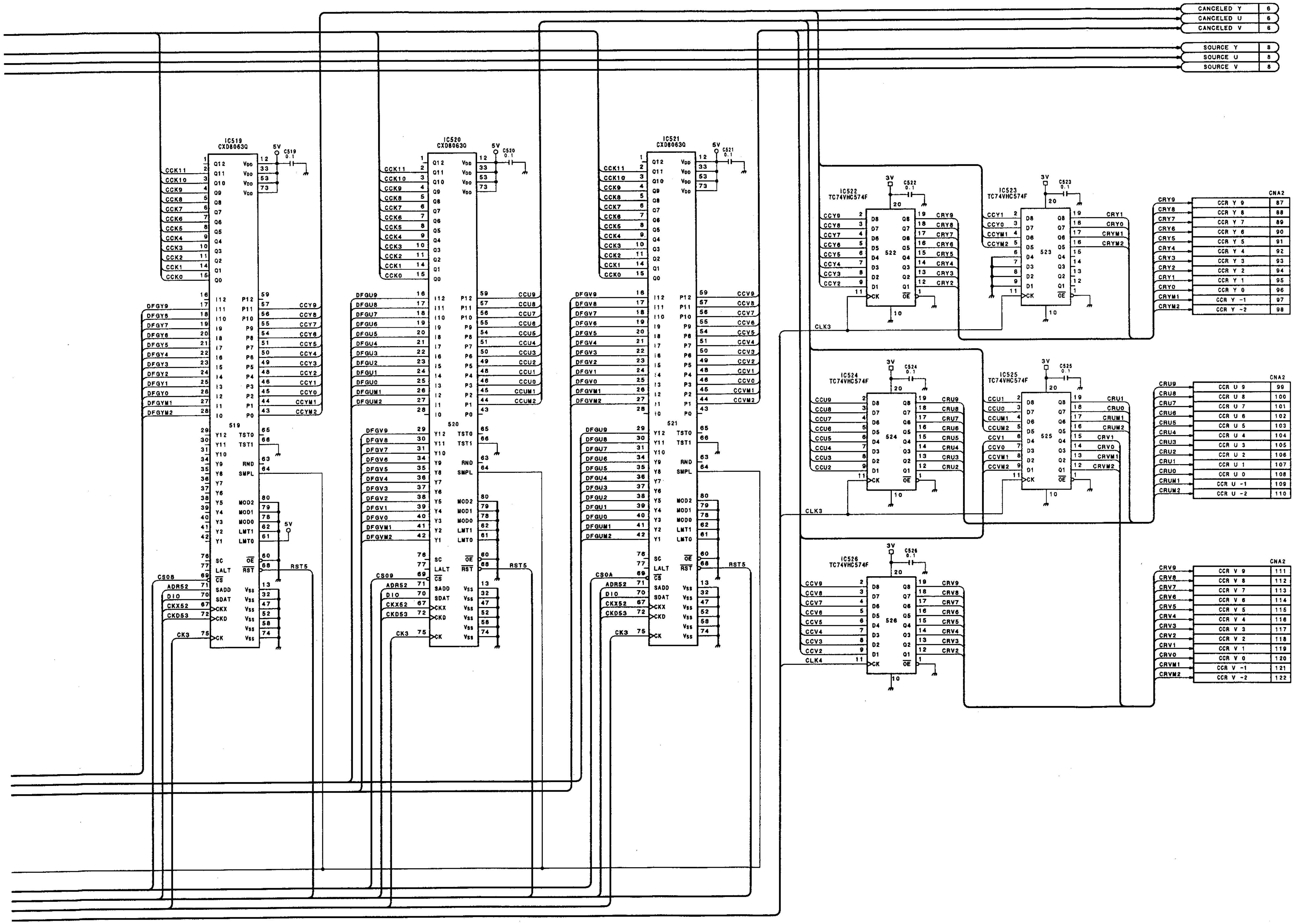

1
2
3
4
5
A
B
C
D
E
F
G
H
FRGD SUB
FRGD MAIN
IC401
CX08190Q
IC402
CX08190Q
5V
C401 0.1
C402 0.1
SIFM
VDD
(Y9) A9
(Y0) A0
(V9) E9
(V0) E0
(U9) B9
(U0) B0
C9
C0
NC
SMPL
DMPX
RST
CS
ADR
DIO
CKD
CKX
CK
OE
VSS
FM9
FM0
FS9
FS0
FMY9
FMY0
FGK9
FGK0
FMV9
FMV0
FSV9
FSV0
FMU9
FMU0
FSU9
FSU0
RST5
CS24
CS25
ADR52
DIO
CKD54
CKX52
FCK2
IC403
SN74HC157ANS
IC404
SN74HC157ANS
IC405
SN74HC157ANS
IC406
SN74HC157ANS
IC407
SN74HC157ANS
IC408
SN74HC157ANS
C403 0.1
C404 0.1
C405 0.1
C406 0.1
C407 0.1
C408 0.1
A1
B1
A2
B2
A3
B3
A4
B4
SEL
STB
Y1
Y2
Y3
Y4
FU9
FU8
FU7
FU6
FU5
FU4
FU3
FU2
FU1
FU0
FV9
FV8
FV7
FV6
FV5
FV4
FV3
FV2
FV1
FV0
VIDEO SAMPLE
MEM MODE RST1
DMPX TMG
FRGD MPX
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (27M/5V)
CK (13.5M/5V)
CK (13.5M/3V)


FRGD K
FRGD Y
FRGD U
FRGD V
IC410
CXD8055Q
IC409
CXD8055Q
IC411
CXD8875AR
IC412
TC74VHC574F
IC413
TC74VHC574F
IC414
TC74VHC574F
IC415
TC74VHC574F
IC416
TC74VHC574F
IC417
TC74VHC574F
IC418
TC74VHC574F
CNB2
LINK K 9
LINK K 8
LINK K 7
LINK K 6
LINK K 5
LINK K 4
LINK K 3
LINK K 2
LINK K 1
LINK K 0
FRGD Y 9
FRGD Y 8
FRGD Y 7
FRGD Y 6
FRGD Y 5
FRGD Y 4
FRGD Y 3
FRGD Y 2
FRGD Y 1
FRGD Y 0
FRGD U 9
FRGD U 8
FRGD U 7
FRGD U 6
FRGD U 5
FRGD U 4
FRGD U 3
FRGD U 2
FRGD U 1
FRGD U 0
FRGD U -1
FRGD U -2
FRGD U -3
FRGD V 9
FRGD V 8
FRGD V 7
FRGD V 6
FRGD V 5
FRGD V 4
FRGD V 3
FRGD V 2
FRGD V 1
FRGD V 0
FRGD V -1
FRGD V -2
FRGD V -3
CLK1
CLK2
CK2
CKX52
CS29
CS28
DAT51
CKD54
5V
3V
1
2
3
4
5

Chromakey Board
CRK-10 (4/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

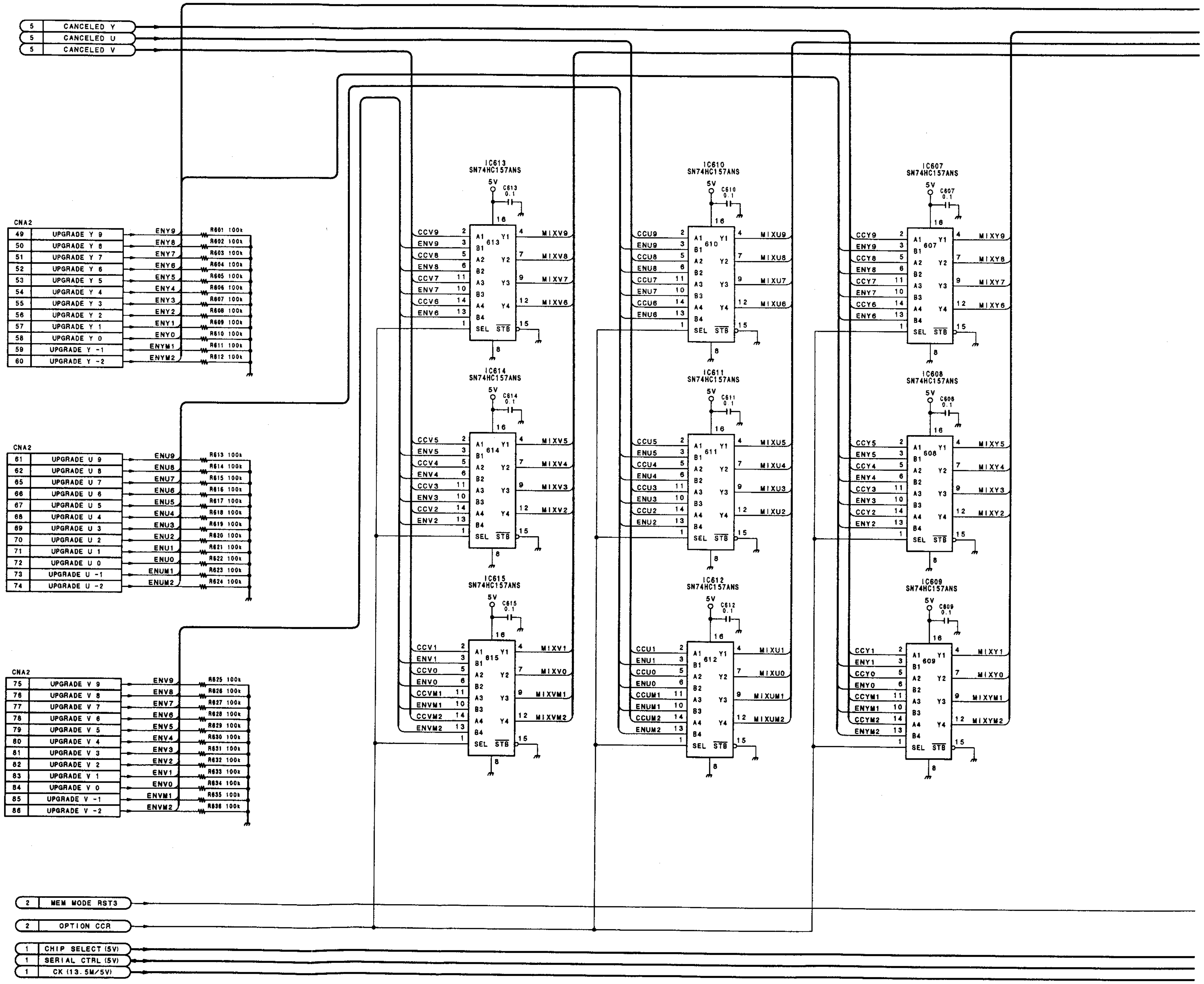
BKDS-2031 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CANCEL KEY
FRGD Y
FRGD U
FRGD V
CNB2
PROC. Y 9
PROC. Y 8
PROC. Y 7
PROC. Y 6
PROC. Y 5
PROC. Y 4
PROC. Y 3
PROC. Y 2
PROC. Y 1
PROC. Y 0
PROC. Y -1
PROC. Y -2
PROC. U 9
PROC. U 8
PROC. U 7
PROC. U 6
PROC. U 5
PROC. U 4
PROC. U 3
PROC. U 2
PROC. U 1
PROC. U 0
PROC. U -1
PROC. U -2
PROC. V 9
PROC. V 8
PROC. V 7
PROC. V 6
PROC. V 5
PROC. V 4
PROC. V 3
PROC. V 2
PROC. V 1
PROC. V 0
PROC. V -1
PROC. V -2
IC513 SN74HC157ANS
IC514 SN74HC157ANS
IC515 SN74HC157ANS
IC510 SN74HC157ANS
IC511 SN74HC157ANS
IC512 SN74HC157ANS
IC507 SN74HC157ANS
IC508 SN74HC157ANS
IC509 SN74HC157ANS
IC517 CXD8875AR
IC516 CXD8875AR
IC518 CXD8875AR
CK3
5V
MEM MODE RST2
OPTION CCR
VIDEO SAMPLE
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (13.5M/3V)

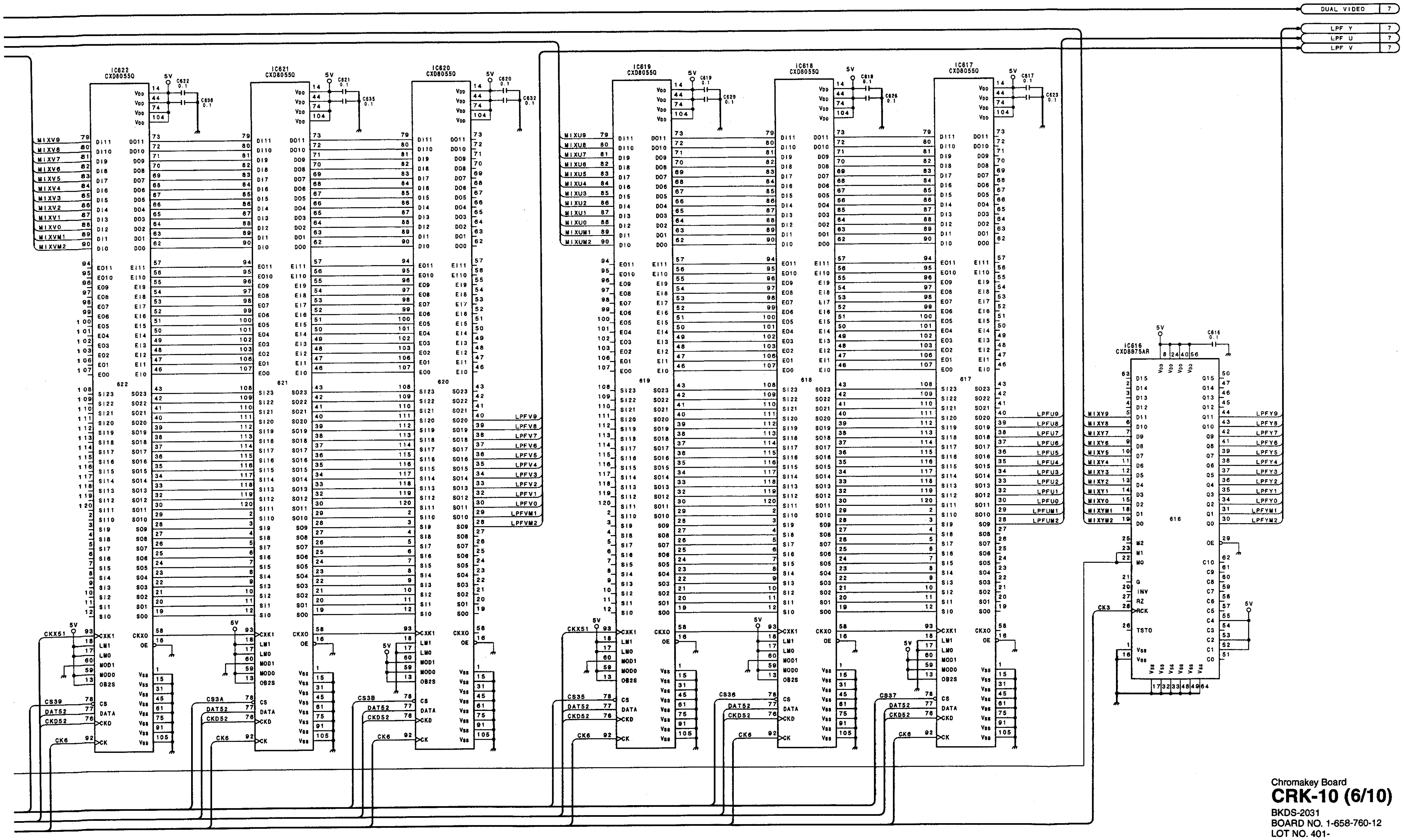

CANCELED Y 6
CANCELED U 6
CANCELED V 6
SOURCE Y 8
SOURCE U 8
SOURCE V 8
IC519 CXD8063Q
IC520 CXD8063Q
IC521 CXD8063Q
5V
C519 0.1
C520 0.1
C521 0.1
IC522 TC74VHC574F
IC523 TC74VHC574F
IC524 TC74VHC574F
IC525 TC74VHC574F
IC526 TC74VHC574F
3V
C522 0.1
C523 0.1
C524 0.1
C525 0.1
C526 0.1
CLK3
CLK4
CS08
CS09
CS0A
ADR52
DIO
CKX52
CKD53
CK3
RST5
CNA2
CCR Y 9
CCR Y 8
CCR Y 7
CCR Y 6
CCR Y 5
CCR Y 4
CCR Y 3
CCR Y 2
CCR Y 1
CCR Y 0
CCR Y -1
CCR Y -2
CCR U 9
CCR U 8
CCR U 7
CCR U 6
CCR U 5
CCR U 4
CCR U 3
CCR U 2
CCR U 1
CCR U 0
CCR U -1
CCR U -2
CCR V 9
CCR V 8
CCR V 7
CCR V 6
CCR V 5
CCR V 4
CCR V 3
CCR V 2
CCR V 1
CCR V 0
CCR V -1
CCR V -2
1
2
3
4
5
I
J
K
L
M
N
O
P

Chromakey Board
CRK-10 (5/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

BKDS-2031 (SY) : S/N 10001 and Higher


1
2
3
4
5
5 CANCELED Y
5 CANCELED U
5 CANCELED V
CNA2
49 UPGRADE Y 9
50 UPGRADE Y 8
51 UPGRADE Y 7
52 UPGRADE Y 6
53 UPGRADE Y 5
54 UPGRADE Y 4
55 UPGRADE Y 3
56 UPGRADE Y 2
57 UPGRADE Y 1
58 UPGRADE Y 0
59 UPGRADE Y -1
60 UPGRADE Y -2
ENY9 ENY8 ENY7 ENY6 ENY5 ENY4 ENY3 ENY2 ENY1 ENY0 ENYM1 ENYM2
R601 100k R602 100k R603 100k R604 100k R605 100k R606 100k R607 100k R608 100k R609 100k R610 100k R611 100k R612 100k
CNA2
61 UPGRADE U 9
62 UPGRADE U 8
65 UPGRADE U 7
66 UPGRADE U 6
67 UPGRADE U 5
68 UPGRADE U 4
69 UPGRADE U 3
70 UPGRADE U 2
71 UPGRADE U 1
72 UPGRADE U 0
73 UPGRADE U -1
74 UPGRADE U -2
ENU9 ENU8 ENU7 ENU6 ENU5 ENU4 ENU3 ENU2 ENU1 ENU0 ENUM1 ENUM2
R613 100k R614 100k R615 100k R616 100k R617 100k R618 100k R619 100k R620 100k R621 100k R622 100k R623 100k R624 100k
CNA2
75 UPGRADE V 9
76 UPGRADE V 8
77 UPGRADE V 7
78 UPGRADE V 6
79 UPGRADE V 5
80 UPGRADE V 4
81 UPGRADE V 3
82 UPGRADE V 2
83 UPGRADE V 1
84 UPGRADE V 0
85 UPGRADE V -1
86 UPGRADE V -2
ENV9 ENV8 ENV7 ENV6 ENV5 ENV4 ENV3 ENV2 ENV1 ENV0 ENVM1 ENVM2
R625 100k R626 100k R627 100k R628 100k R629 100k R630 100k R631 100k R632 100k R633 100k R634 100k R635 100k R636 100k
IC613 SN74HC157ANS
IC614 SN74HC157ANS
IC615 SN74HC157ANS
IC610 SN74HC157ANS
IC611 SN74HC157ANS
IC612 SN74HC157ANS
IC607 SN74HC157ANS
IC608 SN74HC157ANS
IC609 SN74HC157ANS
5V
C613 0.1 C614 0.1 C615 0.1 C610 0.1 C611 0.1 C612 0.1 C607 0.1 C608 0.1 C609 0.1
A1 B1 A2 B2 A3 B3 A4 B4 SEL Y1 Y2 Y3 Y4 STB
CCV9 ENV9 CCV8 ENV8 CCV7 ENV7 CCV6 ENV6
MIXV9 MIXV8 MIXV7 MIXV6
CCV5 ENV5 CCV4 ENV4 CCV3 ENV3 CCV2 ENV2
MIXV5 MIXV4 MIXV3 MIXV2
CCV1 ENV1 CCV0 ENV0 CCVM1 ENVM1 CCVM2 ENVM2
MIXV1 MIXV0 MIXVM1 MIXVM2
CCU9 ENU9 CCU8 ENU8 CCU7 ENU7 CCU6 ENU6
MIXU9 MIXU8 MIXU7 MIXU6
CCU5 ENU5 CCU4 ENU4 CCU3 ENU3 CCU2 ENU2
MIXU5 MIXU4 MIXU3 MIXU2
CCU1 ENU1 CCU0 ENU0 CCUM1 ENUM1 CCUM2 ENUM2
MIXU1 MIXU0 MIXUM1 MIXUM2
CCY9 ENY9 CCY8 ENY8 CCY7 ENY7 CCY6 ENY6
MIXY9 MIXY8 MIXY7 MIXY6
CCY5 ENY5 CCY4 ENY4 CCY3 ENY3 CCY2 ENY2
MIXY5 MIXY4 MIXY3 MIXY2
CCY1 ENY1 CCY0 ENY0 CCYM1 ENYM1 CCYM2 ENYM2
MIXY1 MIXY0 MIXYM1 MIXYM2
2 MEM MODE RST3
2 OPTION CCR
1 CHIP SELECT (5V)
1 SERIAL CTRL (5V)
1 CK (13.5M/5V)
A B C D E F G H

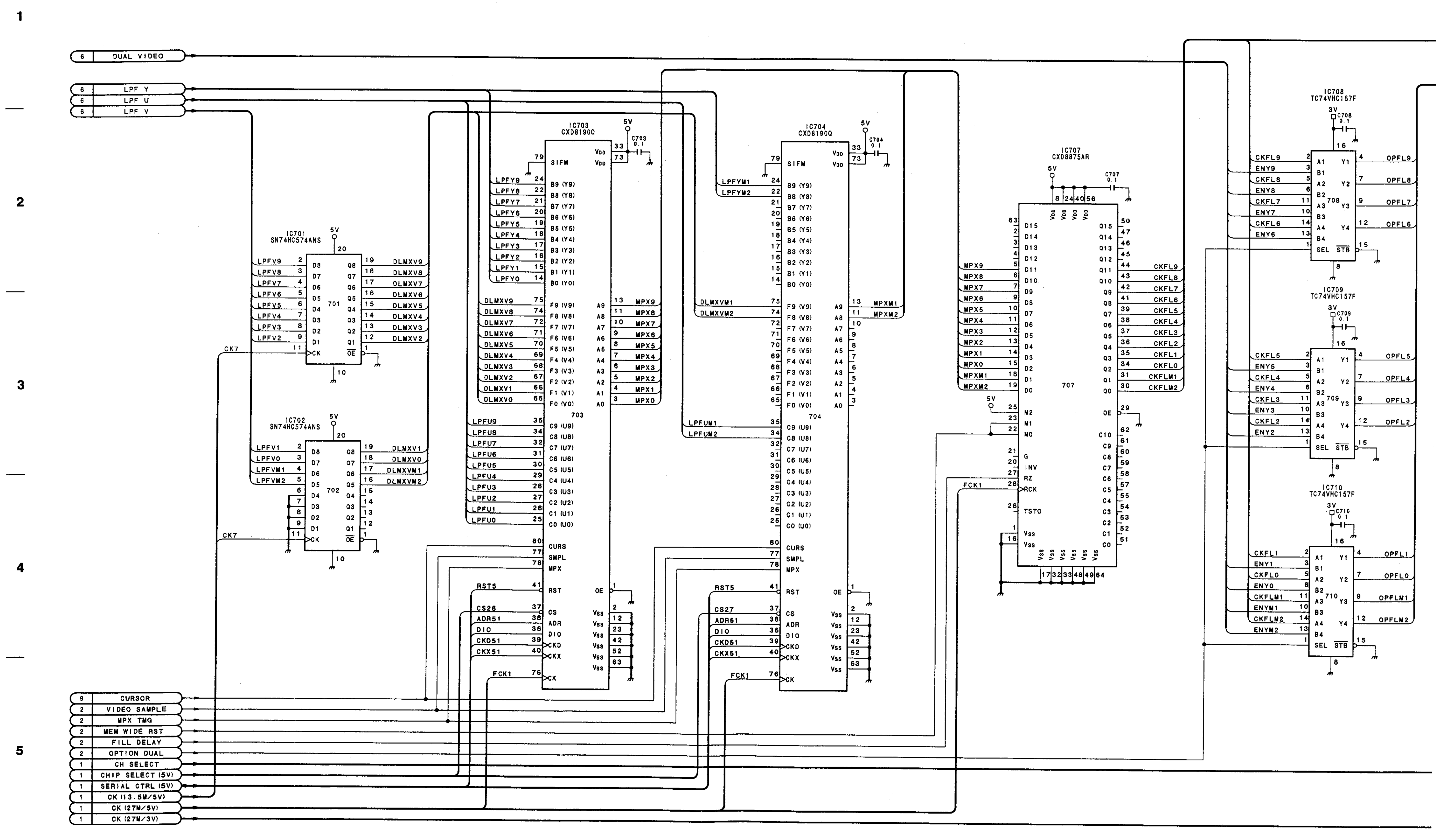
CRK-10 (6/10) Chromakey Board

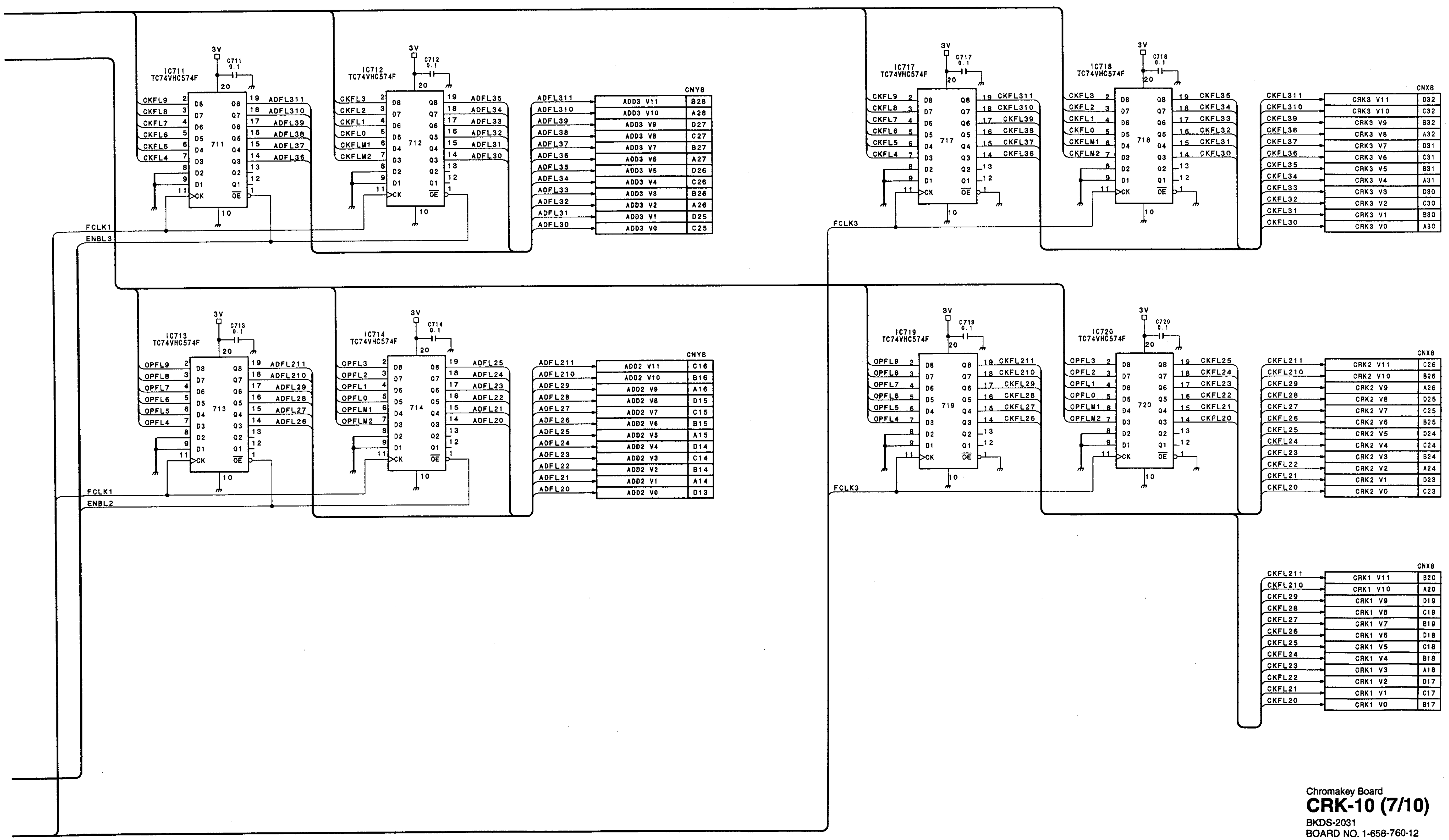

DUAL VIDEO 7
LPF Y 7
LPF U 7
LPF V 7
IC622 CXD8055Q
IC621 CXD8055Q
IC620 CXD8055Q
IC619 CXD8055Q
IC618 CXD8055Q
IC617 CXD8055Q
IC616 CXD8875AR
5V
C622 0.1
C638 0.1
C621 0.1
C635 0.1
C620 0.1
C632 0.1
C619 0.1
C629 0.1
C618 0.1
C626 0.1
C617 0.1
C623 0.1
C616 0.1
MIXV9
MIXV8
MIXV7
MIXV6
MIXV5
MIXV4
MIXV3
MIXV2
MIXV1
MIXV0
MIXVM1
MIXVM2
MIXU9
MIXU8
MIXU7
MIXU6
MIXU5
MIXU4
MIXU3
MIXU2
MIXU1
MIXU0
MIXUM1
MIXUM2
MIXY9
MIXY8
MIXY7
MIXY6
MIXY5
MIXY4
MIXY3
MIXY2
MIXY1
MIXY0
MIXYM1
MIXYM2
LPFV9
LPFV8
LPFV7
LPFV6
LPFV5
LPFV4
LPFV3
LPFV2
LPFV1
LPFV0
LPFVM1
LPFVM2
LPFU9
LPFU8
LPFU7
LPFU6
LPFU5
LPFU4
LPFU3
LPFU2
LPFU1
LPFU0
LPFUM1
LPFUM2
LPFY9
LPFY8
LPFY7
LPFY6
LPFY5
LPFY4
LPFY3
LPFY2
LPFY1
LPFY0
LPFYM1
LPFYM2
CKXS1
CS39
CS3A
CS3B
CS35
CS36
CS37
DAT52
CKD52
CK6
CK3
VDD
VSS
DI11 DI10 DI9 DI8 DI7 DI6 DI5 DI4 DI3 DI2 DI1 DI0
DO11 DO10 DO9 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 DO0
EO11 EO10 EO9 EO8 EO7 EO6 EO5 EO4 EO3 EO2 EO1 EO0
EI11 EI10 EI9 EI8 EI7 EI6 EI5 EI4 EI3 EI2 EI1 EI0
SI23 SI22 SI21 SI20 SI19 SI18 SI17 SI16 SI15 SI14 SI13 SI12 SI11 SI10 SI9 SI8 SI7 SI6 SI5 SI4 SI3 SI2 SI1 SI0
SO23 SO22 SO21 SO20 SO19 SO18 SO17 SO16 SO15 SO14 SO13 SO12 SO11 SO10 SO9 SO8 SO7 SO6 SO5 SO4 SO3 SO2 SO1 SO0
CKXI CKXO OE LMI LMO MOD1 MOD0 OB2S CS DATA CKD CK
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G INV RZ RCK TSTO OE
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
622
621
620
619
618
617
616
1 2 3 4 5

Chromakey Board
CRK-10 (6/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

3-153

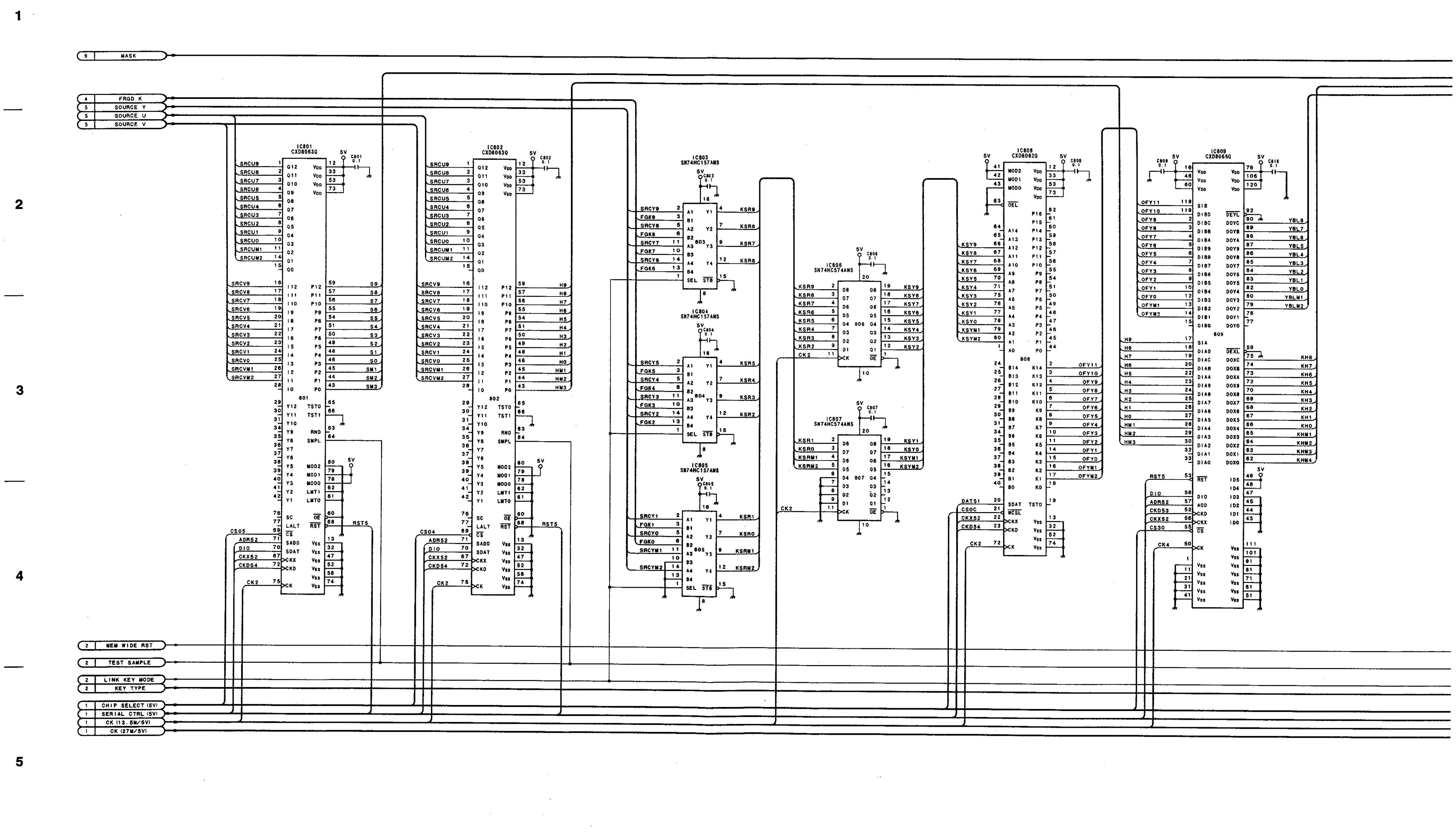
BKDS-2031 (SY) : S/N 10001 and Higher

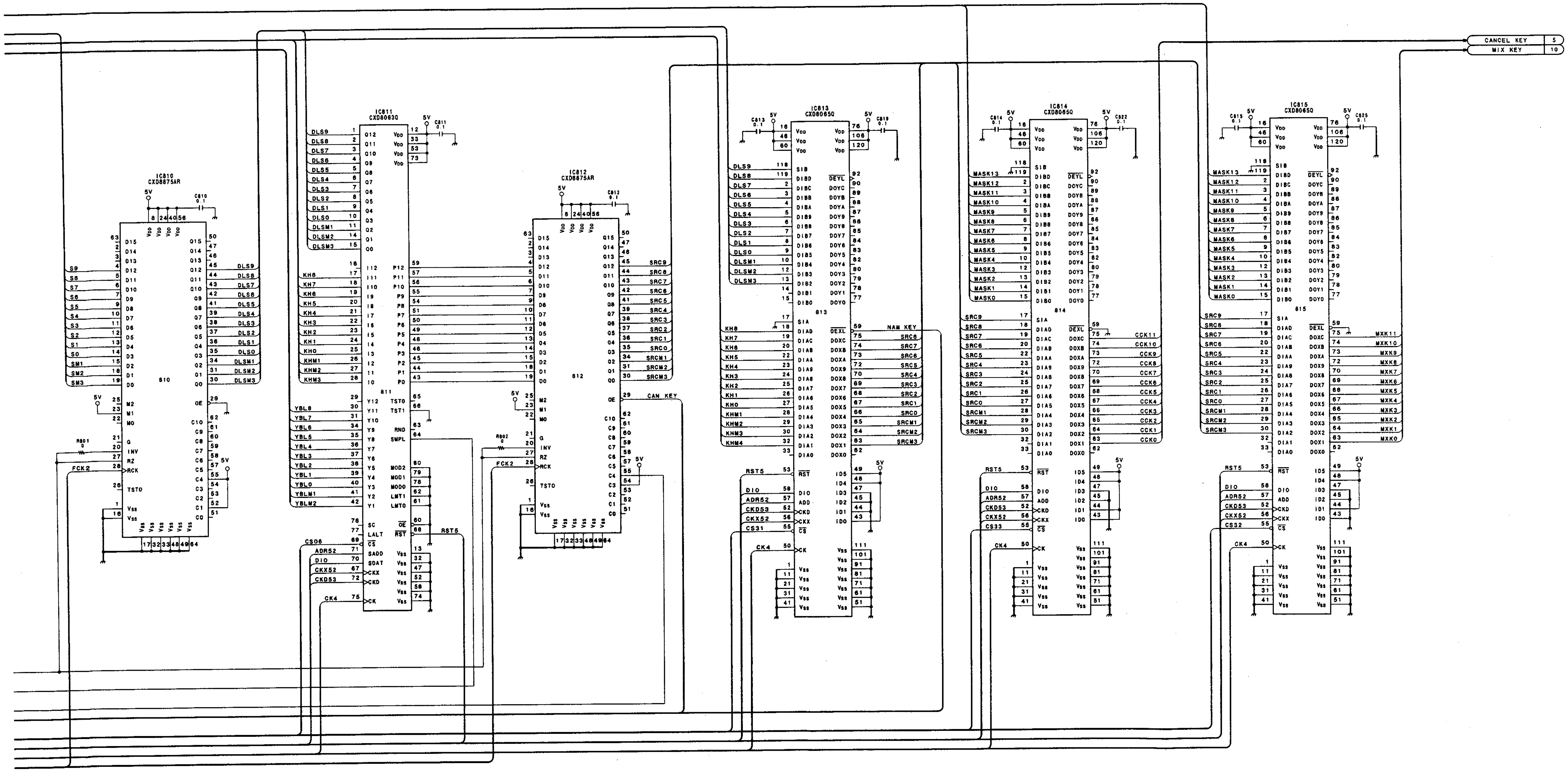

1
2
3
4
5
DUAL VIDEO
LPF Y
LPF U
LPF V
IC701
SN74HC574ANS
IC702
SN74HC574ANS
IC703
CXD8190Q
IC704
CXD8190Q
IC707
CXD8875AR
IC708
TC74VHC157F
IC709
TC74VHC157F
IC710
TC74VHC157F
C703 0.1
C704 0.1
C707 0.1
C708 0.1
C709 0.1
C710 0.1
5V
3V
CK7
FCK1
RST5
CS26
CS27
ADR51
DIO
CKD51
CKX51
CURSOR
VIDEO SAMPLE
MPX TMG
MEM WIDE RST
FILL DELAY
OPTION DUAL
CH SELECT
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (27M/5V)
CK (27M/3V)
OPFL9
OPFL8
OPFL7
OPFL6
OPFL5
OPFL4
OPFL3
OPFL2
OPFL1
OPFL0
OPFLM1
OPFLM2
A
B
C
D
E
F
G
H


1
2
3
4
5
IC711 TC74VHC574F
IC712 TC74VHC574F
IC713 TC74VHC574F
IC714 TC74VHC574F
IC717 TC74VHC574F
IC718 TC74VHC574F
IC719 TC74VHC574F
IC720 TC74VHC574F
3V
C711 0.1
C712 0.1
C713 0.1
C714 0.1
C717 0.1
C718 0.1
C719 0.1
C720 0.1
D8 D7 D6 D5 D4 D3 D2 D1 CK
Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 OE
CKFL9 CKFL8 CKFL7 CKFL6 CKFL5 CKFL4
CKFL3 CKFL2 CKFL1 CKFL0 CKFLM1 CKFLM2
OPFL9 OPFL8 OPFL7 OPFL6 OPFL5 OPFL4
OPFL3 OPFL2 OPFL1 OPFL0 OPFLM1 OPFLM2
ADFL311 ADFL310 ADFL39 ADFL38 ADFL37 ADFL36
ADFL35 ADFL34 ADFL33 ADFL32 ADFL31 ADFL30
ADFL211 ADFL210 ADFL29 ADFL28 ADFL27 ADFL26
ADFL25 ADFL24 ADFL23 ADFL22 ADFL21 ADFL20
CKFL311 CKFL310 CKFL39 CKFL38 CKFL37 CKFL36
CKFL35 CKFL34 CKFL33 CKFL32 CKFL31 CKFL30
CKFL211 CKFL210 CKFL29 CKFL28 CKFL27 CKFL26
CKFL25 CKFL24 CKFL23 CKFL22 CKFL21 CKFL20
FCLK1
ENBL3
ENBL2
FCLK3
CNY8
ADFL311 ADD3 V11 B28
ADFL310 ADD3 V10 A28
ADFL39 ADD3 V9 D27
ADFL38 ADD3 V8 C27
ADFL37 ADD3 V7 B27
ADFL36 ADD3 V6 A27
ADFL35 ADD3 V5 D26
ADFL34 ADD3 V4 C26
ADFL33 ADD3 V3 B26
ADFL32 ADD3 V2 A26
ADFL31 ADD3 V1 D25
ADFL30 ADD3 V0 C25
CNY8
ADFL211 ADD2 V11 C16
ADFL210 ADD2 V10 B16
ADFL29 ADD2 V9 A16
ADFL28 ADD2 V8 D15
ADFL27 ADD2 V7 C15
ADFL26 ADD2 V6 B15
ADFL25 ADD2 V5 A15
ADFL24 ADD2 V4 D14
ADFL23 ADD2 V3 C14
ADFL22 ADD2 V2 B14
ADFL21 ADD2 V1 A14
ADFL20 ADD2 V0 D13
CNX8
CKFL311 CRK3 V11 D32
CKFL310 CRK3 V10 C32
CKFL39 CRK3 V9 B32
CKFL38 CRK3 V8 A32
CKFL37 CRK3 V7 D31
CKFL36 CRK3 V6 C31
CKFL35 CRK3 V5 B31
CKFL34 CRK3 V4 A31
CKFL33 CRK3 V3 D30
CKFL32 CRK3 V2 C30
CKFL31 CRK3 V1 B30
CKFL30 CRK3 V0 A30
CNX8
CKFL211 CRK2 V11 C26
CKFL210 CRK2 V10 B26
CKFL29 CRK2 V9 A26
CKFL28 CRK2 V8 D25
CKFL27 CRK2 V7 C25
CKFL26 CRK2 V6 B25
CKFL25 CRK2 V5 D24
CKFL24 CRK2 V4 C24
CKFL23 CRK2 V3 B24
CKFL22 CRK2 V2 A24
CKFL21 CRK2 V1 D23
CKFL20 CRK2 V0 C23
CNX8
CKFL211 CRK1 V11 B20
CKFL210 CRK1 V10 A20
CKFL29 CRK1 V9 D19
CKFL28 CRK1 V8 C19
CKFL27 CRK1 V7 B19
CKFL26 CRK1 V6 D18
CKFL25 CRK1 V5 C18
CKFL24 CRK1 V4 B18
CKFL23 CRK1 V3 A18
CKFL22 CRK1 V2 D17
CKFL21 CRK1 V1 C17
CKFL20 CRK1 V0 B17

Chromakey Board
CRK-10 (7/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

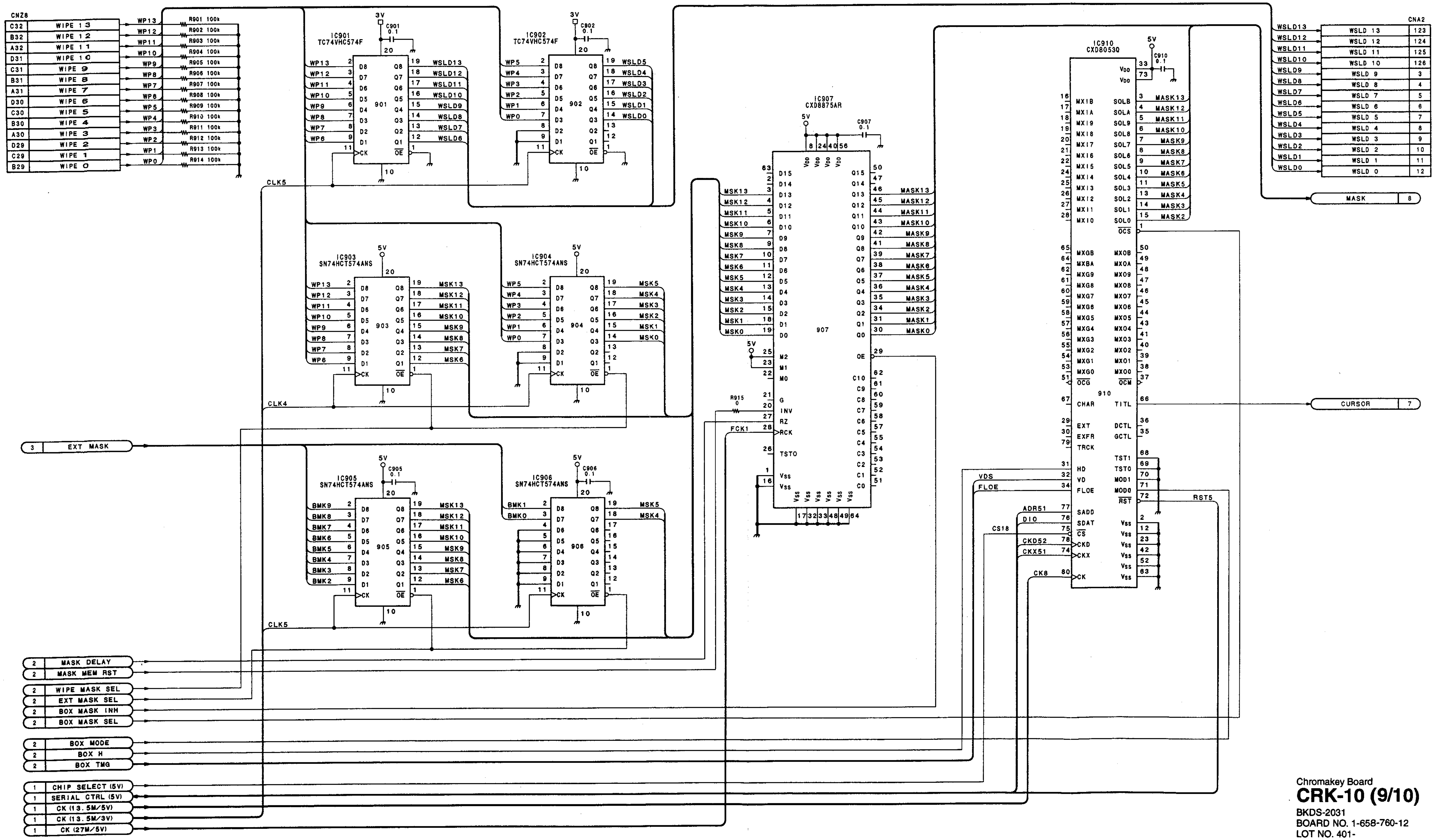
BKDS-2031 (SY) : S/N 10001 and Higher


1
2
3
4
5
MASK
FRGD K
SOURCE Y
SOURCE U
SOURCE V
IC801 CXD8063Q
IC802 CXD8063Q
IC803 SN74HC157ANS
IC804 SN74HC157ANS
IC805 SN74HC157ANS
IC806 SN74HC574ANS
IC807 SN74HC574ANS
IC808 CXD8062Q
IC809 CXD8065Q
5V
MEM WIDE RST
TEST SAMPLE
LINK KEY MODE
KEY TYPE
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (27M/5V)
A
B
C
D
E
F
G
H


IC810
CXD8875AR
IC811
CXD8063Q
IC812
CXD8875AR
IC813
CXD8065Q
IC814
CXD8065Q
IC815
CXD8065Q
5V
CANCEL KEY 5
MIX KEY 10
CAN KEY
NAM KEY
FCK2
RST5
CK4
ADR52
DIO
CKX52
CKD53
CS06
CS31
CS33
CS32
R801
R802
1
2
3
4
5

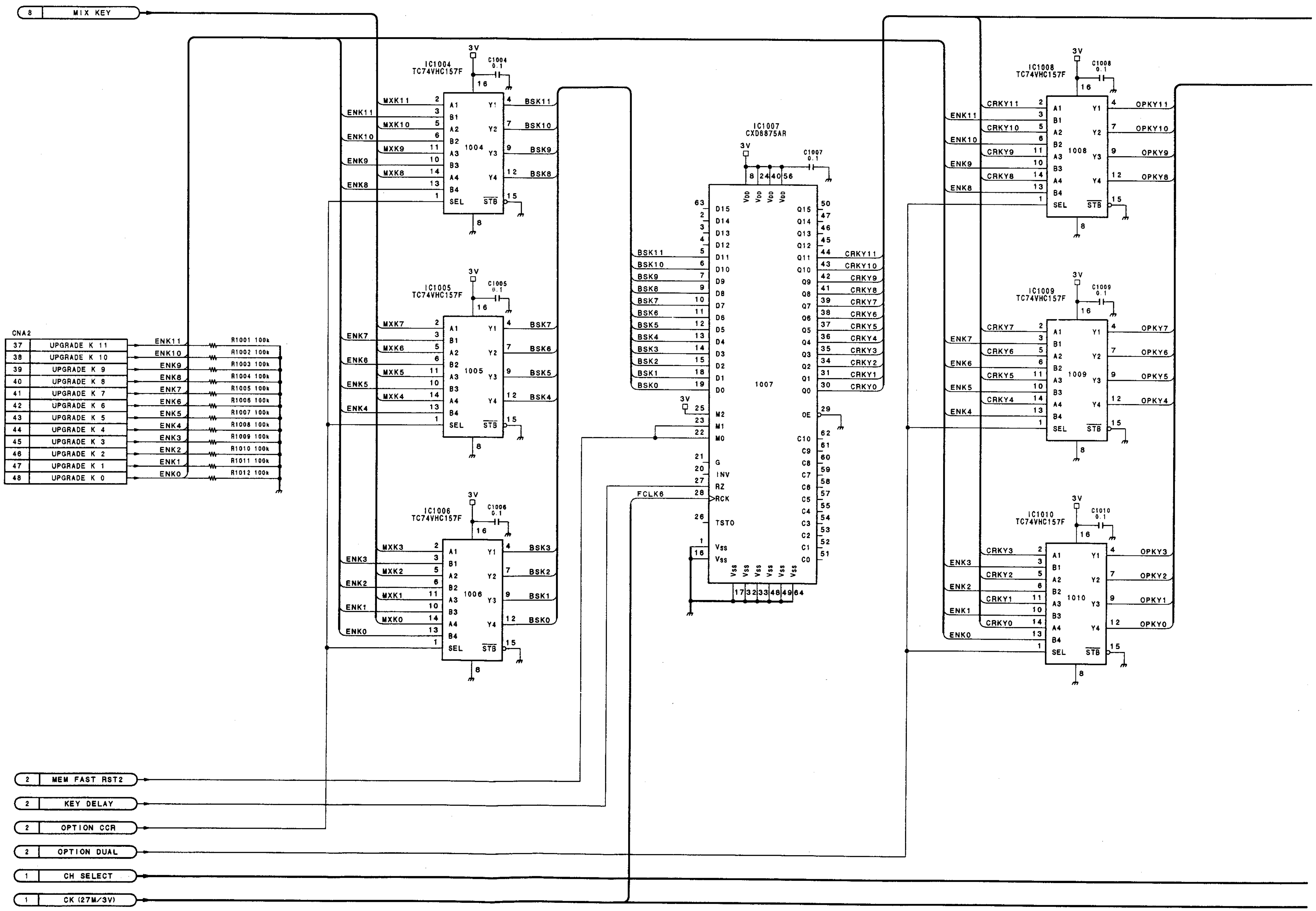
Chromakey Board
CRK-10 (8/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

BKDS-2031 (SY) : S/N 10001 and Higher

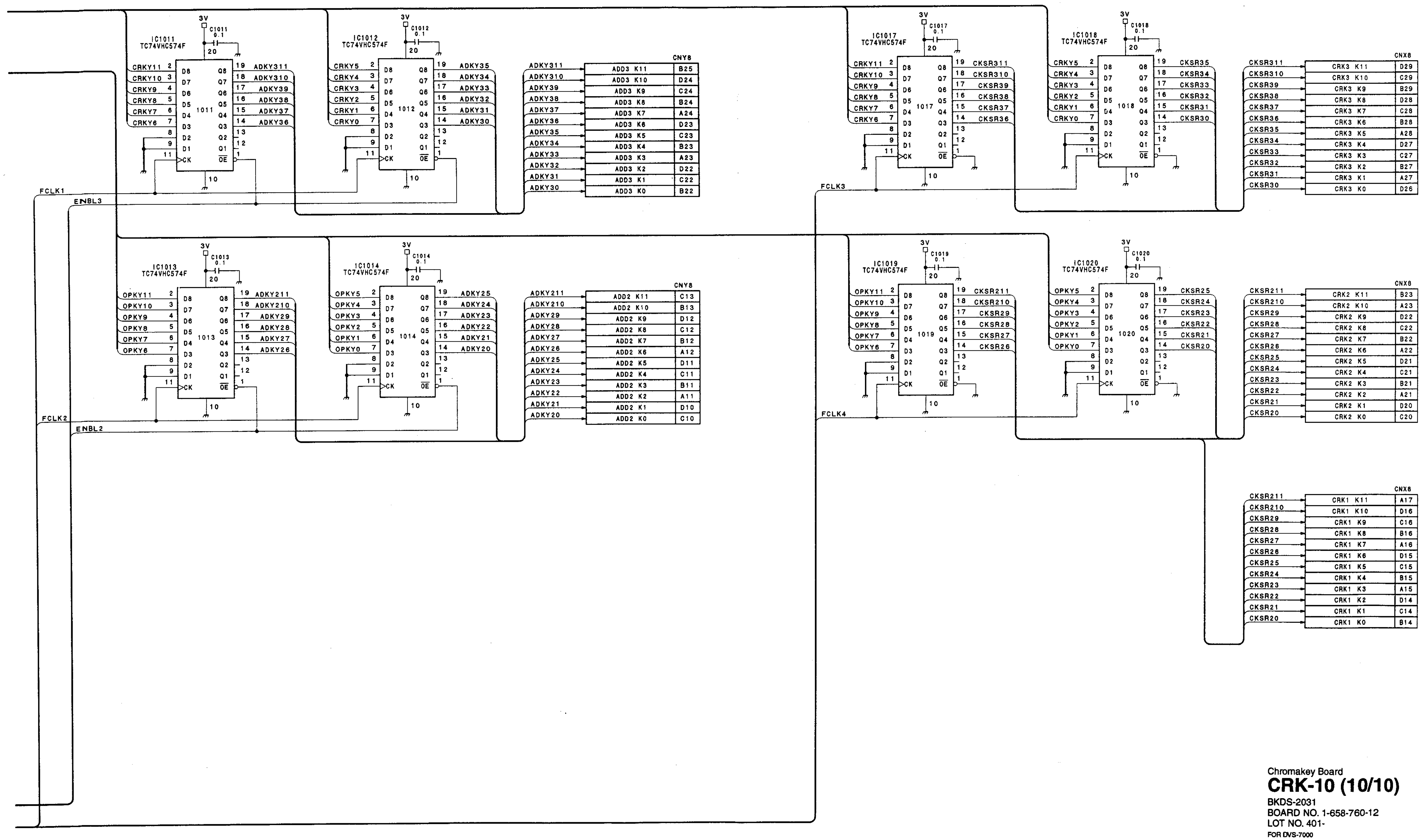

CNZ8
WIPE 13
WIPE 12
WIPE 11
WIPE 10
WIPE 9
WIPE 8
WIPE 7
WIPE 6
WIPE 5
WIPE 4
WIPE 3
WIPE 2
WIPE 1
WIPE 0
R901 100k
R914 100k
IC901 TC74VHC574F
IC902 TC74VHC574F
IC903 SN74HCT574ANS
IC904 SN74HCT574ANS
IC905 SN74HCT574ANS
IC906 SN74HCT574ANS
IC907 CXD8875AR
IC910 CXD8053Q
C901 0.1
C902 0.1
C905 0.1
C906 0.1
C907 0.1
C910 0.1
3V
5V
CLK5
CLK4
R915 0
FCK1
EXT MASK
MASK DELAY
MASK MEM RST
WIPE MASK SEL
EXT MASK SEL
BOX MASK INH
BOX MASK SEL
BOX MODE
BOX H
BOX TMG
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (13.5M/3V)
CK (27M/5V)
VDS
FLOE
CS18
ADR51
DIO
CKD52
CKX51
CK8
RST5
MASK
CURSOR
CNA2
WSLD 13
WSLD 12
WSLD 11
WSLD 10
WSLD 9
WSLD 8
WSLD 7
WSLD 6
WSLD 5
WSLD 4
WSLD 3
WSLD 2
WSLD 1
WSLD 0

Chromakey Board
CRK-10 (9/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

BKDS-2031 (SY) : S/N 10001 and Higher


1
2
3
4
5
8 MIX KEY
CNA2
37 UPGRADE K 11
38 UPGRADE K 10
39 UPGRADE K 9
40 UPGRADE K 8
41 UPGRADE K 7
42 UPGRADE K 6
43 UPGRADE K 5
44 UPGRADE K 4
45 UPGRADE K 3
46 UPGRADE K 2
47 UPGRADE K 1
48 UPGRADE K 0
ENK11
ENK10
ENK9
ENK8
ENK7
ENK6
ENK5
ENK4
ENK3
ENK2
ENK1
ENK0
R1001 100k
R1002 100k
R1003 100k
R1004 100k
R1005 100k
R1006 100k
R1007 100k
R1008 100k
R1009 100k
R1010 100k
R1011 100k
R1012 100k
IC1004 TC74VHC157F
IC1005 TC74VHC157F
IC1006 TC74VHC157F
C1004 0.1
C1005 0.1
C1006 0.1
3V
MXK11
MXK10
MXK9
MXK8
MXK7
MXK6
MXK5
MXK4
MXK3
MXK2
MXK1
MXK0
A1
B1
A2
B2
A3
B3
A4
B4
SEL
Y1
Y2
Y3
Y4
STB
1004
1005
1006
BSK11
BSK10
BSK9
BSK8
BSK7
BSK6
BSK5
BSK4
BSK3
BSK2
BSK1
BSK0
IC1007 CXD8875AR
C1007 0.1
1007
VDD
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
Q15
Q14
Q13
Q12
Q11
Q10
Q9
Q8
Q7
Q6
Q5
Q4
Q3
Q2
Q1
Q0
M2
M1
M0
OE
G
INV
RZ
RCK
TSTO
C10
C9
C8
C7
C6
C5
C4
C3
C2
C1
C0
VSS
FCLK6
CRKY11
CRKY10
CRKY9
CRKY8
CRKY7
CRKY6
CRKY5
CRKY4
CRKY3
CRKY2
CRKY1
CRKY0
IC1008 TC74VHC157F
IC1009 TC74VHC157F
IC1010 TC74VHC157F
C1008 0.1
C1009 0.1
C1010 0.1
1008
1009
1010
OPKY11
OPKY10
OPKY9
OPKY8
OPKY7
OPKY6
OPKY5
OPKY4
OPKY3
OPKY2
OPKY1
OPKY0
2 MEM FAST RST2
2 KEY DELAY
2 OPTION CCR
2 OPTION DUAL
1 CH SELECT
1 CK (27M/3V)

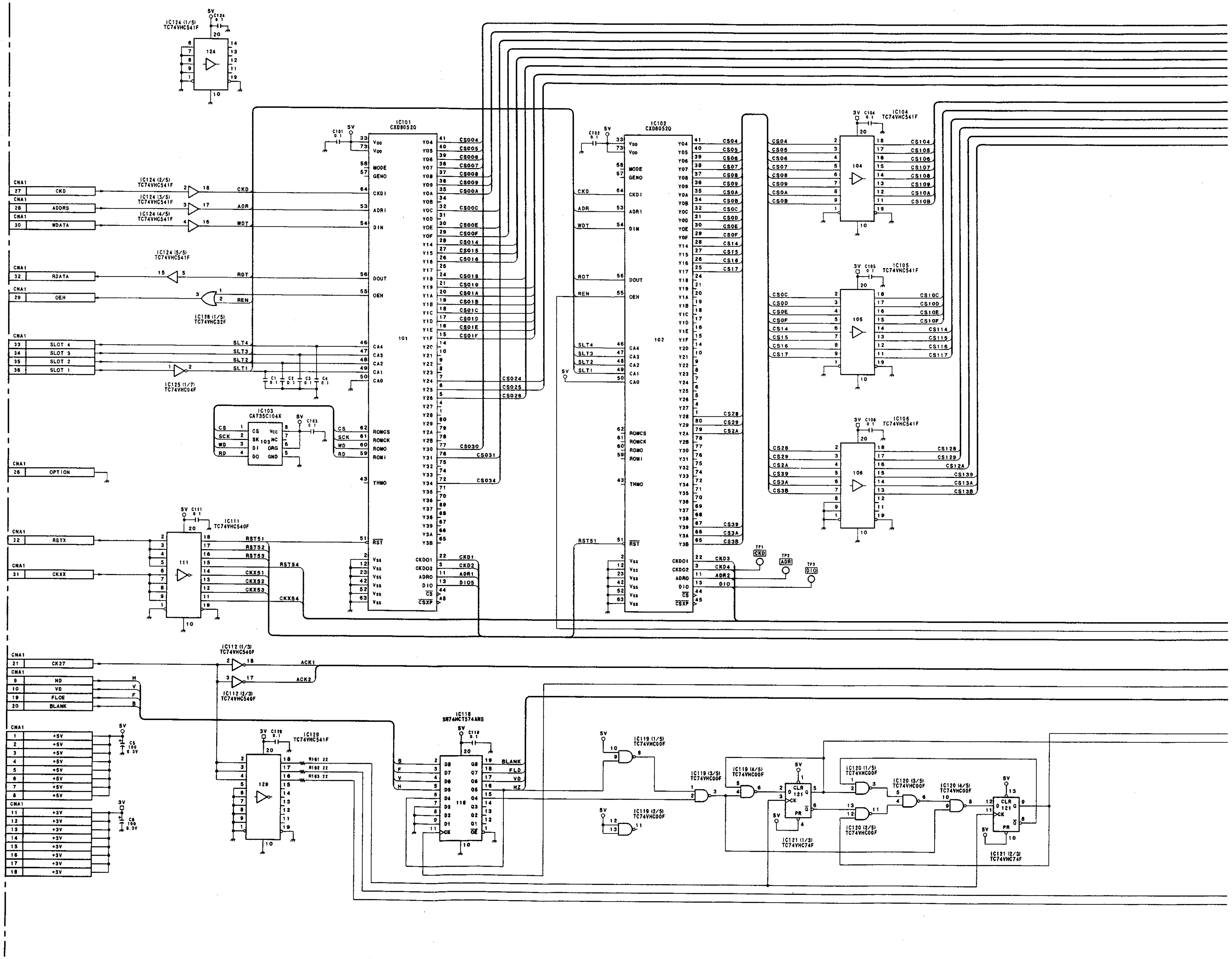
A B C D E F G H


IC1011 TC74VHC574F
C1011 0.1
3V
CRKY11 CRKY10 CRKY9 CRKY8 CRKY7 CRKY6
ADKY311 ADKY310 ADKY39 ADKY38 ADKY37 ADKY36
IC1012 TC74VHC574F
C1012 0.1
CRKY5 CRKY4 CRKY3 CRKY2 CRKY1 CRKY0
ADKY35 ADKY34 ADKY33 ADKY32 ADKY31 ADKY30
FCLK1
ENBL3
CNY8
ADD3 K11 B25
ADD3 K10 D24
ADD3 K9 C24
ADD3 K8 B24
ADD3 K7 A24
ADD3 K6 D23
ADD3 K5 C23
ADD3 K4 B23
ADD3 K3 A23
ADD3 K2 D22
ADD3 K1 C22
ADD3 K0 B22
IC1013 TC74VHC574F
C1013 0.1
OPKY11 OPKY10 OPKY9 OPKY8 OPKY7 OPKY6
ADKY211 ADKY210 ADKY29 ADKY28 ADKY27 ADKY26
IC1014 TC74VHC574F
C1014 0.1
OPKY5 OPKY4 OPKY3 OPKY2 OPKY1 OPKY0
ADKY25 ADKY24 ADKY23 ADKY22 ADKY21 ADKY20
FCLK2
ENBL2
CNY8
ADD2 K11 C13
ADD2 K10 B13
ADD2 K9 D12
ADD2 K8 C12
ADD2 K7 B12
ADD2 K6 A12
ADD2 K5 D11
ADD2 K4 C11
ADD2 K3 B11
ADD2 K2 A11
ADD2 K1 D10
ADD2 K0 C10
IC1017 TC74VHC574F
C1017 0.1
CRKY11 CRKY10 CRKY9 CRKY8 CRKY7 CRKY6
CKSR311 CKSR310 CKSR39 CKSR38 CKSR37 CKSR36
IC1018 TC74VHC574F
C1018 0.1
CRKY5 CRKY4 CRKY3 CRKY2 CRKY1 CRKY0
CKSR35 CKSR34 CKSR33 CKSR32 CKSR31 CKSR30
FCLK3
CNX8
CRK3 K11 D29
CRK3 K10 C29
CRK3 K9 B29
CRK3 K8 D28
CRK3 K7 C28
CRK3 K6 B28
CRK3 K5 A28
CRK3 K4 D27
CRK3 K3 C27
CRK3 K2 B27
CRK3 K1 A27
CRK3 K0 D26
IC1019 TC74VHC574F
C1019 0.1
OPKY11 OPKY10 OPKY9 OPKY8 OPKY7 OPKY6
CKSR211 CKSR210 CKSR29 CKSR28 CKSR27 CKSR26
IC1020 TC74VHC574F
C1020 0.1
OPKY5 OPKY4 OPKY3 OPKY2 OPKY1 OPKY0
CKSR25 CKSR24 CKSR23 CKSR22 CKSR21 CKSR20
FCLK4
CNX8
CRK2 K11 B23
CRK2 K10 A23
CRK2 K9 D22
CRK2 K8 C22
CRK2 K7 B22
CRK2 K6 A22
CRK2 K5 D21
CRK2 K4 C21
CRK2 K3 B21
CRK2 K2 A21
CRK2 K1 D20
CRK2 K0 C20
CNX8
CRK1 K11 A17
CRK1 K10 D16
CRK1 K9 C16
CRK1 K8 B16
CRK1 K7 A16
CRK1 K6 D15
CRK1 K5 C15
CRK1 K4 B15
CRK1 K3 A15
CRK1 K2 D14
CRK1 K1 C14
CRK1 K0 B14
D8 D7 D6 D5 D4 D3 D2 D1 CK
Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 OE
20 10
1
2
3
4
5

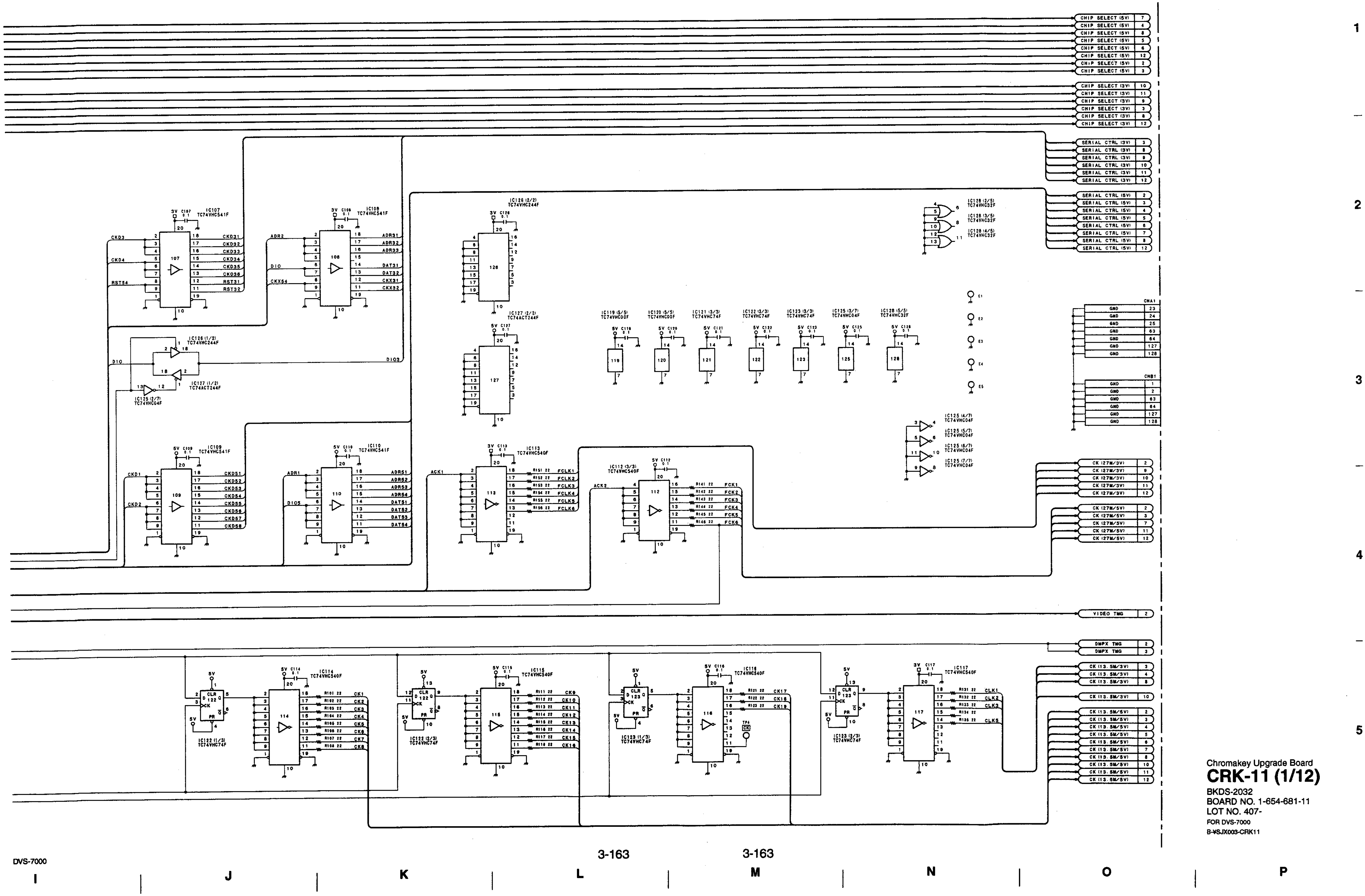
Chromakey Board
CRK-10 (10/10)
BKDS-2031
BOARD NO. 1-658-760-12
LOT NO. 401-
FOR DVS-7000
B-¥SJX003-CRK10

I J K L M N O P

BKDS-2032 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
IC124 (1/5) TC74VHC541F
IC124 (2/5) TC74VHC541F
IC124 (3/5) TC74VHC541F
IC124 (4/5) TC74VHC541F
IC124 (5/5) TC74VHC541F
IC128 (1/5) TC74VHC32F
IC125 (1/7) TC74VHC04F
IC101 CXD8052Q
IC102 CXD8052Q
IC103 CAT35C104K
IC104 TC74VHC541F
IC105 TC74VHC541F
IC106 TC74VHC541F
IC111 TC74VHC540F
IC112 (1/3) TC74VHC540F
IC112 (2/3) TC74VHC540F
IC129 TC74VHC541F
IC118 SN74HCT574ANS
IC119 (1/5) TC74VHC00F
IC119 (2/5) TC74VHC00F
IC119 (3/5) TC74VHC00F
IC119 (4/5) TC74VHC00F
IC120 (1/5) TC74VHC00F
IC120 (2/5) TC74VHC00F
IC120 (3/5) TC74VHC00F
IC120 (4/5) TC74VHC00F
IC121 (1/2) TC74VHC74F
IC121 (2/2) TC74VHC74F
CNA1
CKD
ADDRS
WDATA
RDATA
OEH
SLOT 4
SLOT 3
SLOT 2
SLOT 1
OPTION
RSTX
CKXX
CK27
HD
VD
FLOE
BLANK
+5V
+3V
ADR
WDT
RDT
REN
SLT4
SLT3
SLT2
SLT1
RSTS1
RSTS2
RSTS3
RSTS4
CKXS1
CKXS2
CKXS3
CKXS4
ACK1
ACK2
CKD1
CKD2
CKD3
CKD4
ADR1
ADR2
DIO
DIO5
TP1 CKD
TP2 ADR
TP3 DIO
CS004
CS005
CS006
CS007
CS008
CS009
CS00A
CS00C
CS00E
CS00F
CS014
CS015
CS016
CS018
CS019
CS01A
CS01B
CS01C
CS01D
CS01E
CS01F
CS024
CS025
CS026
CS030
CS031
CS034
CS04
CS05
CS06
CS07
CS08
CS09
CS0A
CS0B
CS0C
CS0D
CS0E
CS0F
CS14
CS15
CS16
CS17
CS28
CS29
CS2A
CS39
CS3A
CS3B
CS104
CS105
CS106
CS107
CS108
CS109
CS10A
CS10B
CS10C
CS10D
CS10E
CS10F
CS114
CS115
CS116
CS117
CS128
CS129
CS12A
CS139
CS13A
CS13B
VDD
MODE
GENO
DIN
DOUT
CA4
CA3
CA2
CA1
CA0
ROMCS
ROMCK
ROMO
ROMI
THMO
RST
VSS
CKDO1
CKDO2
ADRO
DIO
CS
CSXP
CS
SCK
WD
RD
VCC
NC
ORG
GND
R161 22
R162 22
R163 22
D8 D7 D6 D5 D4 D3 D2 D1
Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1
CK
OE
CLR
PR
5V
3V
C101 0.1
C102 0.1
C103 0.1
C104 0.1
C105 0.1
C106 0.1
C111 0.1
C118 0.1
C124 0.1
C129 0.1
C1 0.1
C2 0.1
C3 0.1
C4 0.1
C5 100 6.3V
C6 100 6.3V

CRK-11 (1/12) Chromakey Upgrade Board

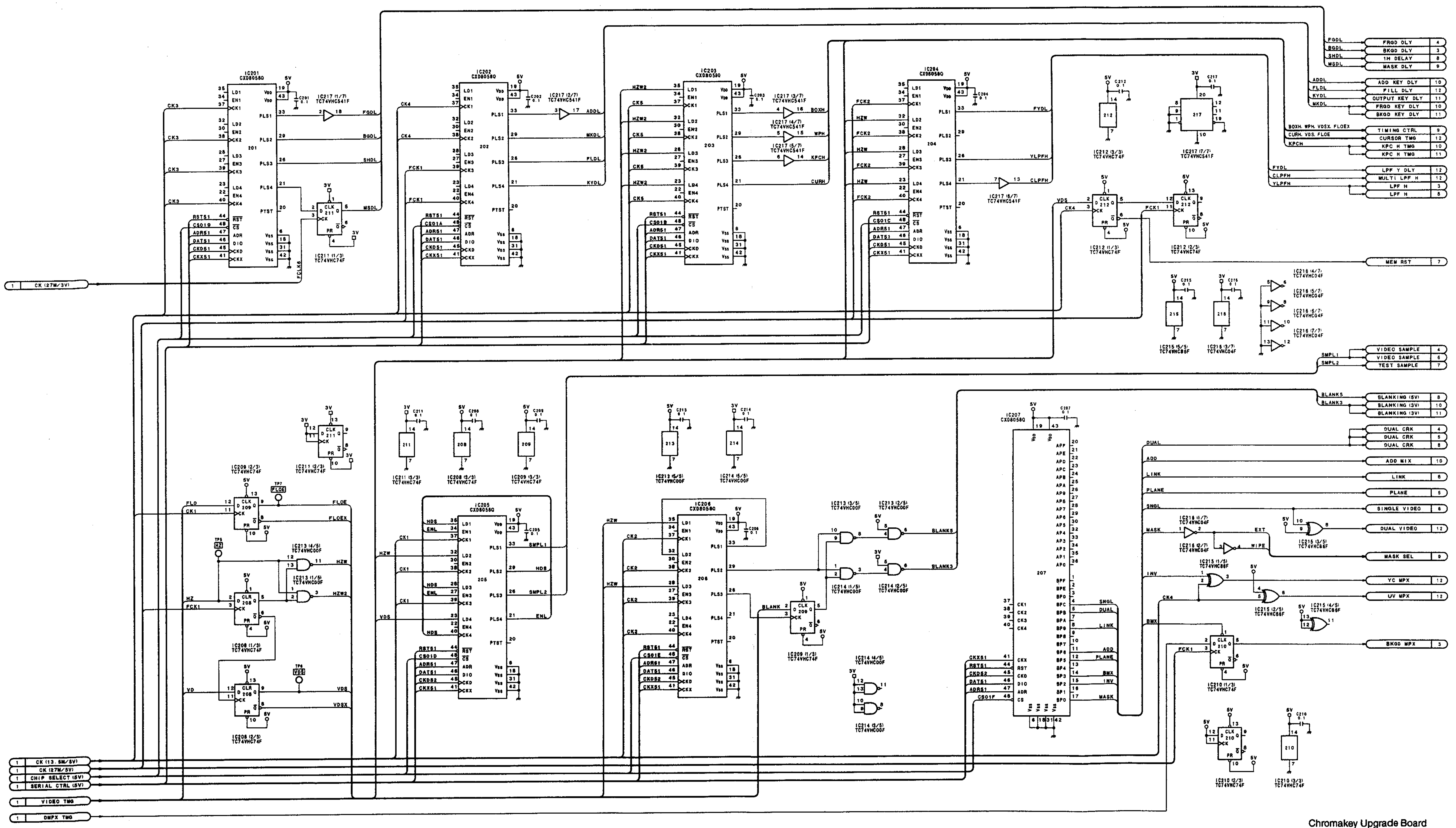

1
2
3
4
5
CHIP SELECT (5V)
CHIP SELECT (3V)
SERIAL CTRL (3V)
SERIAL CTRL (5V)
CNA1
CNB1
GND
CK (27M/3V)
CK (27M/5V)
VIDEO TMG
DMPX TMG
CK (13.5M/3V)
CK (13.5M/5V)
IC107 TC74VHC541F
IC108 TC74VHC541F
IC109 TC74VHC541F
IC110 TC74VHC541F
IC113 TC74VHC540F
IC112 (3/3) TC74VHC540F
IC114 TC74VHC540F
IC115 TC74VHC540F
IC116 TC74VHC540F
IC117 TC74VHC540F
IC126 (1/2) TC74VHC244F
IC126 (2/2) TC74VHC244F
IC127 (1/2) TC74ACT244F
IC127 (2/2) TC74ACT244F
IC125 (2/7) TC74VHC04F
IC128 (2/5) TC74VHC32F
IC128 (3/5) TC74VHC32F
IC128 (4/5) TC74VHC32F
IC119 (5/5) TC74VHC00F
IC120 (5/5) TC74VHC00F
IC121 (3/3) TC74VHC74F
IC122 (3/3) TC74VHC74F
IC123 (3/3) TC74VHC74F
IC125 (3/7) TC74VHC04F
IC128 (5/5) TC74VHC32F
IC125 (4/7) TC74VHC04F
IC125 (5/7) TC74VHC04F
IC125 (6/7) TC74VHC04F
IC125 (7/7) TC74VHC04F
IC122 (1/3) TC74VHC74F
IC122 (2/3) TC74VHC74F
IC123 (1/3) TC74VHC74F
IC123 (2/3) TC74VHC74F
CKD3
CKD4
RST54
CKD31
CKD32
CKD33
CKD34
CKD35
CKD36
RST31
RST32
ADR2
DIO
CKX54
ADR31
ADR32
ADR33
DAT31
DAT32
CKX31
CKX32
DIO3
CKD1
CKD2
CKDS1
CKDS2
CKDS3
CKDS4
CKDS5
CKDS6
CKDS7
CKDS8
ADR1
DIO5
ADR51
ADR52
ADR53
ADR54
DAT51
DAT52
DAT53
DAT54
ACK1
FCLK1
FCLK2
FCLK3
FCLK4
FCLK5
FCLK6
ACK2
FCK1
FCK2
FCK3
FCK4
FCK5
FCK6
CK1
CK2
CK3
CK4
CK5
CK6
CK7
CK8
CK9
CK10
CK11
CK12
CK13
CK14
CK15
CK16
CK17
CK18
CK19
CLK1
CLK2
CLK3
CLK5
TP4 CK
E1
E2
E3
E4
E5
3V
5V
DVS-7000
I
J
K
L
M
N
O
P

3-163

Chromakey Upgrade Board
CRK-11 (1/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

CRK-11 (2/12) Chromakey Upgrade Board

BKDS-2032 (SY) : S/N 10001 and Higher

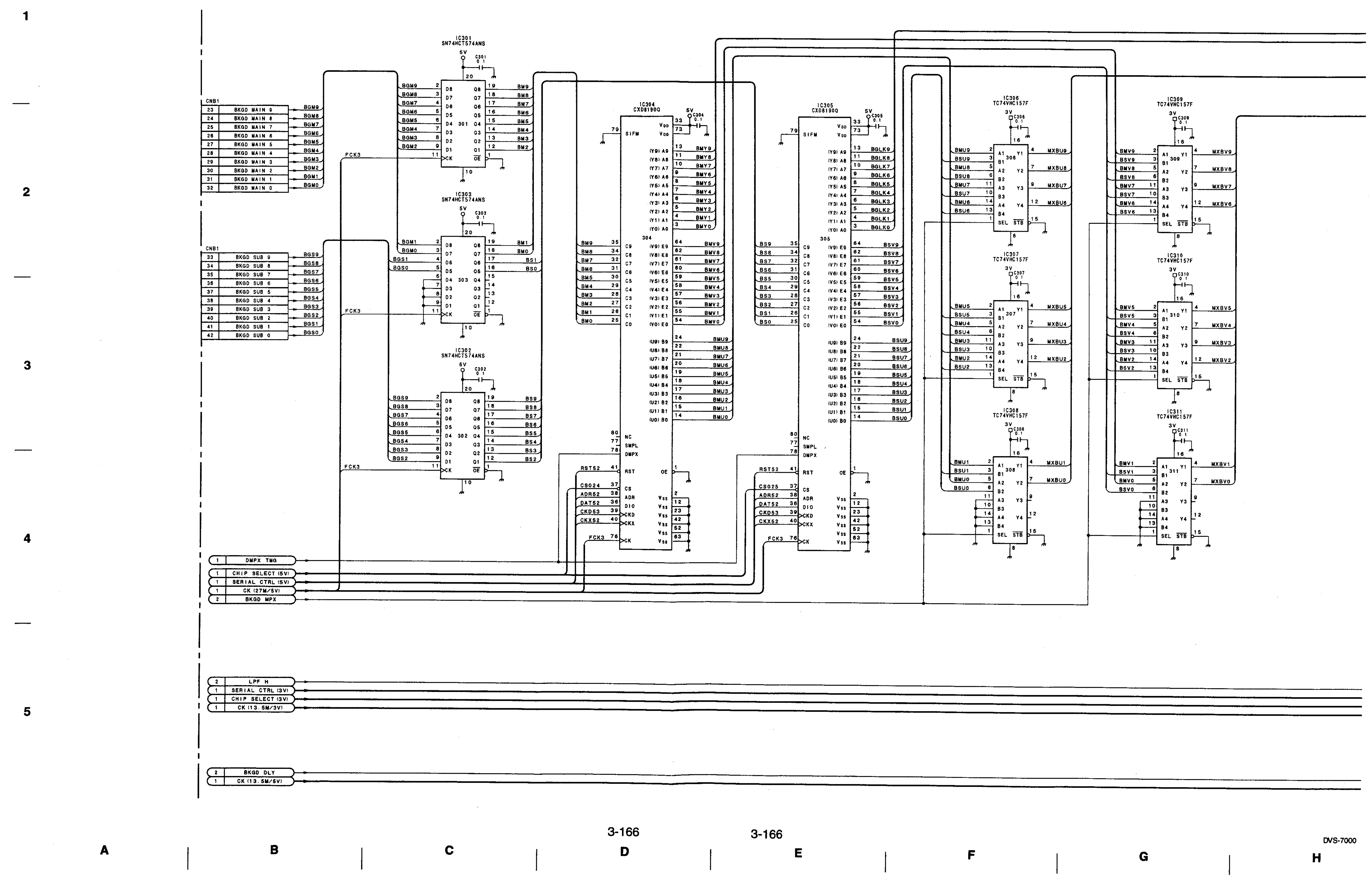

IC201 CXD8058Q
IC202 CXD8058Q
IC203 CXD8058Q
IC204 CXD8058Q
IC205 CXD8058Q
IC206 CXD8058Q
IC207 CXD8058Q
IC217 TC74VHC541F
IC211 TC74VHC74F
IC212 TC74VHC74F
IC208 TC74VHC74F
IC209 TC74VHC74F
IC210 TC74VHC74F
IC213 TC74VHC00F
IC214 TC74VHC00F
IC215 TC74VHC86F
IC216 TC74VHC04F
CK (27M/3V)
CK (13.5M/5V)
CK (27M/5V)
CHIP SELECT (5V)
SERIAL CTRL (5V)
VIDEO TMG
DMPX TMG
FRGD DLY 4
BKGD DLY 3
1H DELAY 8
MASK DLY 9
ADD KEY DLY 10
FILL DLY 12
OUTPUT KEY DLY 11
FRGD KEY DLY 10
BKGD KEY DLY 11
TIMING CTRL 9
CURSOR TMG 12
KPC H TMG 12
KPC H TMG 11
LPF Y DLY 12
MULTI LPF H 12
LPF H 8
LPF H 8
MEM RST 7
VIDEO SAMPLE 4
VIDEO SAMPLE 6
TEST SAMPLE 7
BLANKING (5V) 8
BLANKING (3V) 10
BLANKING (3V) 11
DUAL CRK 4
DUAL CRK 5
DUAL CRK 6
ADD MIX 10
LINK 6
PLANE 5
SINGLE VIDEO 6
DUAL VIDEO 12
MASK SEL 9
YC MPX 12
UV MPX 12
BKGD MPX 3
1
2
3
4
5
A
B
C
D
E
F
G
H

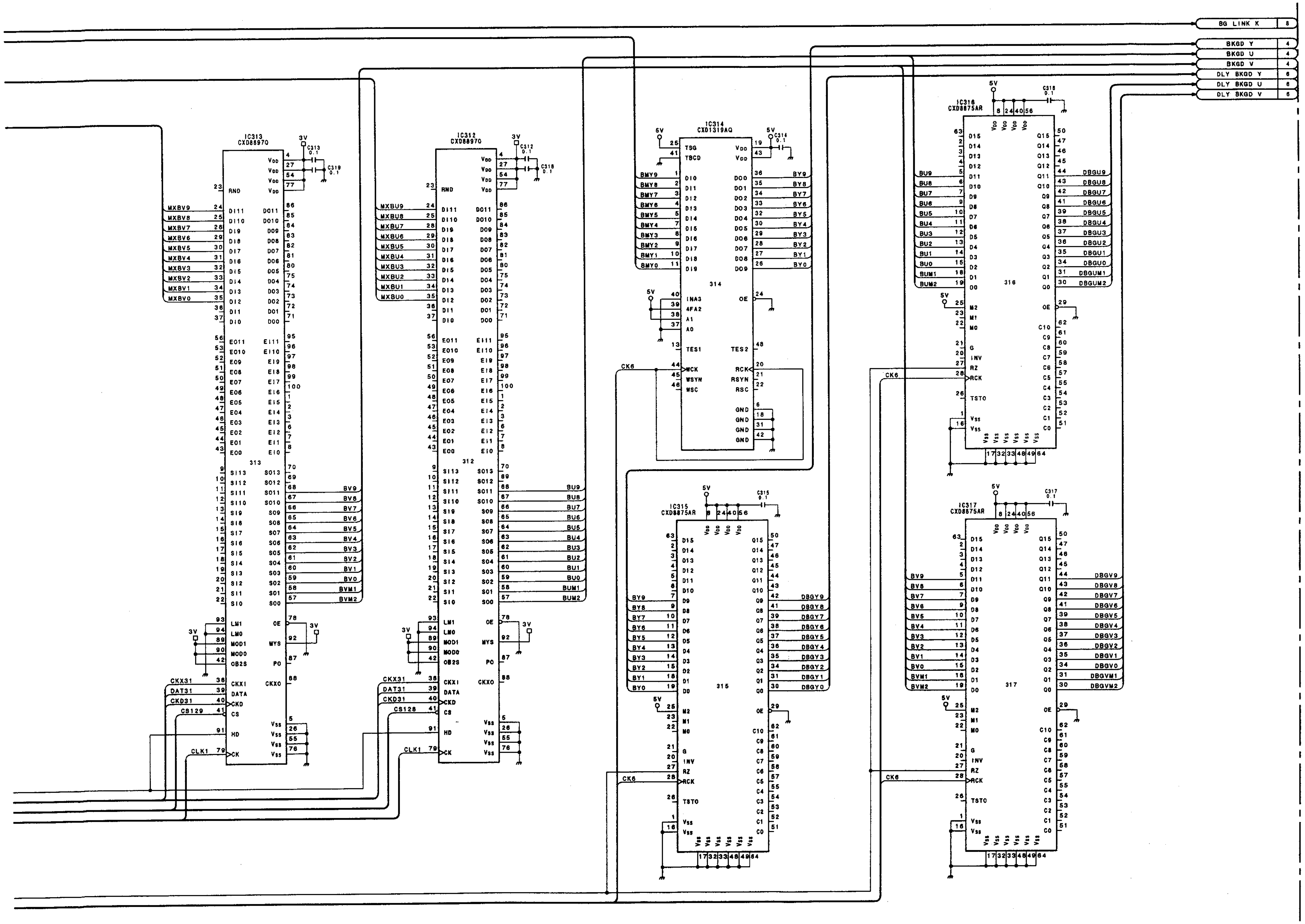
Chromakey Upgrade Board
CRK-11 (2/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

Chromakey Upgrade Board CRK-11 (3/12)

CRK-11 (3/12) Chromakey Upgrade Board

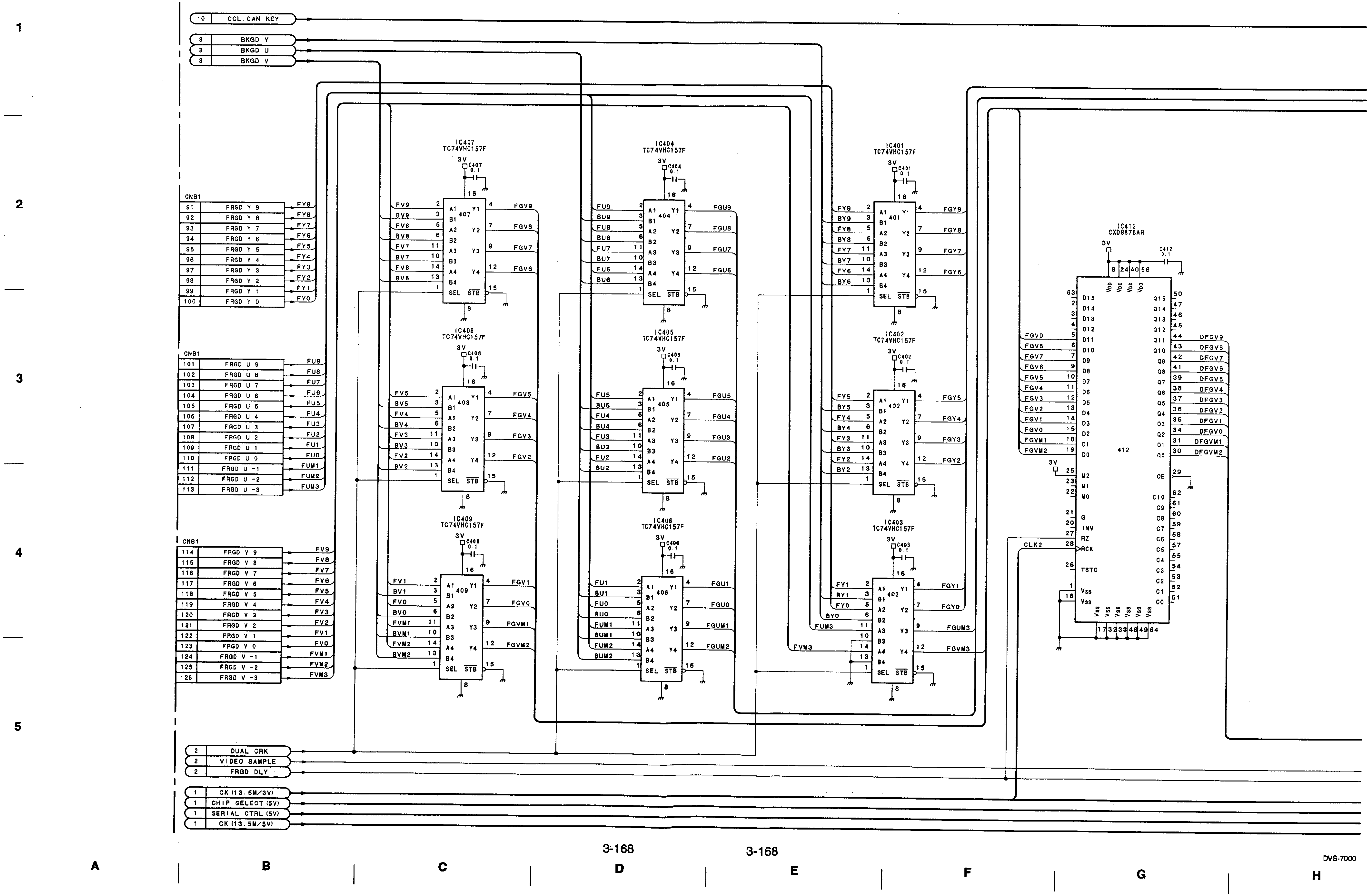
BKDS-2032 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CNB1
23 BKGD MAIN 9 BGM9
24 BKGD MAIN 8 BGM8
25 BKGD MAIN 7 BGM7
26 BKGD MAIN 6 BGM6
27 BKGD MAIN 5 BGM5
28 BKGD MAIN 4 BGM4
29 BKGD MAIN 3 BGM3
30 BKGD MAIN 2 BGM2
31 BKGD MAIN 1 BGM1
32 BKGD MAIN 0 BGM0
CNB1
33 BKGD SUB 9 BGS9
34 BKGD SUB 8 BGS8
35 BKGD SUB 7 BGS7
36 BKGD SUB 6 BGS6
37 BKGD SUB 5 BGS5
38 BKGD SUB 4 BGS4
39 BKGD SUB 3 BGS3
40 BKGD SUB 2 BGS2
41 BKGD SUB 1 BGS1
42 BKGD SUB 0 BGS0
IC301 SN74HCT574ANS
IC303 SN74HCT574ANS
IC302 SN74HCT574ANS
5V
C301 0.1
C303 0.1
C302 0.1
FCK3
IC304 CXD8190Q
IC305 CXD8190Q
C304 0.1
C305 0.1
SIFM
VDD
NC
SMPL
DMPX
RST
OE
CS
ADR
DIO
CKD
CKX
CK
VSS
RST52
CS024
ADR52
DAT52
CKD53
CKX52
CS025
BMY9 BMY8 BMY7 BMY6 BMY5 BMY4 BMY3 BMY2 BMY1 BMY0
BMV9 BMV8 BMV7 BMV6 BMV5 BMV4 BMV3 BMV2 BMV1 BMV0
BMU9 BMU8 BMU7 BMU6 BMU5 BMU4 BMU3 BMU2 BMU1 BMU0
BGLK9 BGLK8 BGLK7 BGLK6 BGLK5 BGLK4 BGLK3 BGLK2 BGLK1 BGLK0
BSV9 BSV8 BSV7 BSV6 BSV5 BSV4 BSV3 BSV2 BSV1 BSV0
BSU9 BSU8 BSU7 BSU6 BSU5 BSU4 BSU3 BSU2 BSU1 BSU0
IC306 TC74VHC157F
IC307 TC74VHC157F
IC308 TC74VHC157F
IC309 TC74VHC157F
IC310 TC74VHC157F
IC311 TC74VHC157F
3V
C306 0.1
C307 0.1
C308 0.1
C309 0.1
C310 0.1
C311 0.1
SEL
STB
MXBU9 MXBU8 MXBU7 MXBU6 MXBU5 MXBU4 MXBU3 MXBU2 MXBU1 MXBU0
MXBV9 MXBV8 MXBV7 MXBV6 MXBV5 MXBV4 MXBV3 MXBV2 MXBV1 MXBV0
1 DMPX TMG
1 CHIP SELECT (5V)
1 SERIAL CTRL (5V)
1 CK (27M/5V)
2 BKGD MPX
2 LPF H
1 SERIAL CTRL (3V)
1 CHIP SELECT (3V)
1 CK (13.5M/3V)
2 BKGD DLY
1 CK (13.5M/5V)

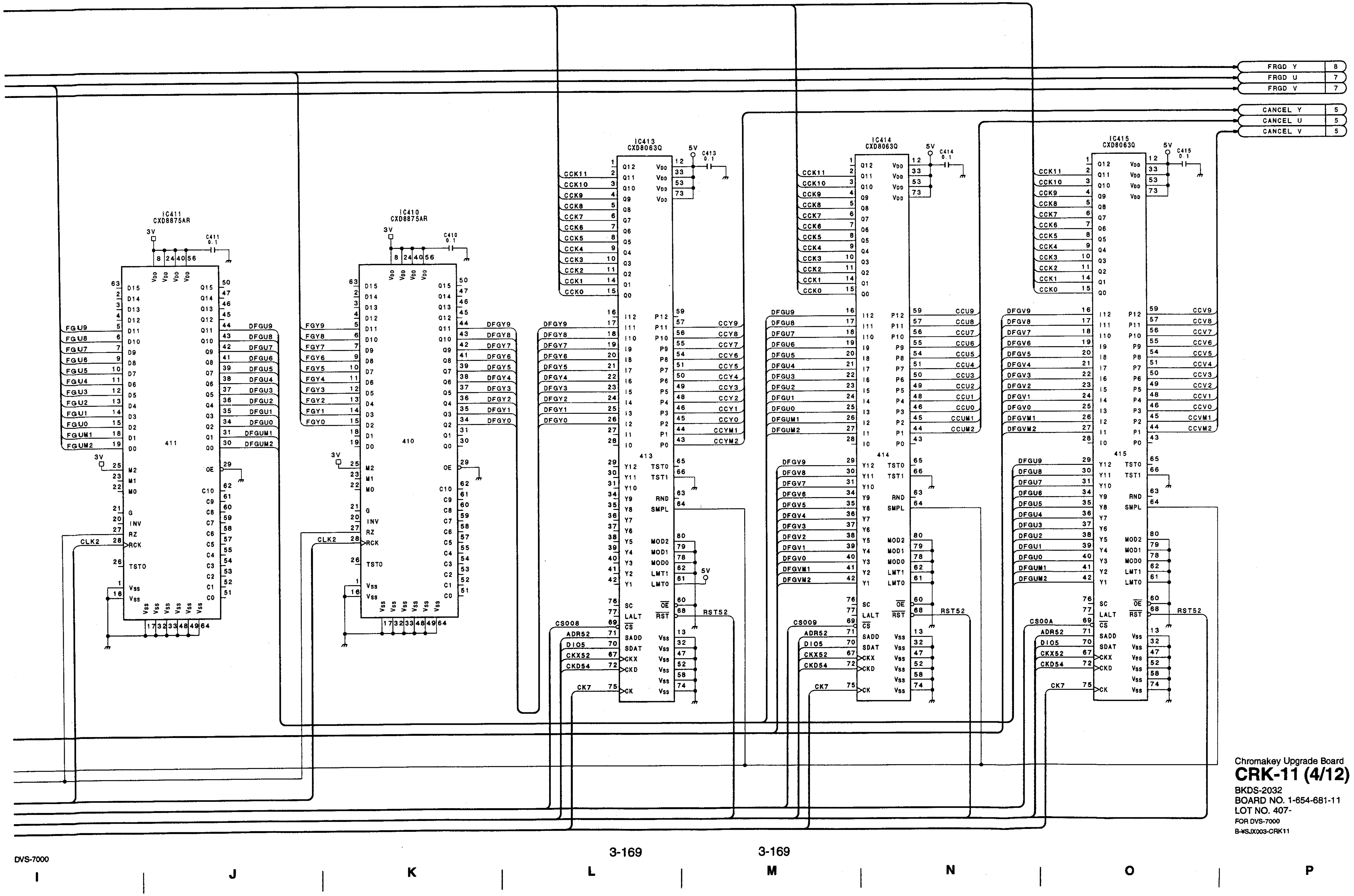

IC313
CXD8897Q
IC312
CXD8897Q
IC314
CXD1319AQ
IC315
CXD8875AR
IC316
CXD8875AR
IC317
CXD8875AR
BG LINK X
BKGD Y
BKGD U
BKGD V
DLY BKGD Y
DLY BKGD U
DLY BKGD V
MXBV9
MXBV8
MXBV7
MXBV6
MXBV5
MXBV4
MXBV3
MXBV2
MXBV1
MXBV0
MXBU9
MXBU8
MXBU7
MXBU6
MXBU5
MXBU4
MXBU3
MXBU2
MXBU1
MXBU0
BMY9
BMY8
BMY7
BMY6
BMY5
BMY4
BMY3
BMY2
BMY1
BMY0
BY9
BY8
BY7
BY6
BY5
BY4
BY3
BY2
BY1
BY0
BU9
BU8
BU7
BU6
BU5
BU4
BU3
BU2
BU1
BU0
BUM1
BUM2
BV9
BV8
BV7
BV6
BV5
BV4
BV3
BV2
BV1
BV0
BVM1
BVM2
DBGU9
DBGU8
DBGU7
DBGU6
DBGU5
DBGU4
DBGU3
DBGU2
DBGU1
DBGU0
DBGUM1
DBGUM2
DBGY9
DBGY8
DBGY7
DBGY6
DBGY5
DBGY4
DBGY3
DBGY2
DBGY1
DBGY0
DBGV9
DBGV8
DBGV7
DBGV6
DBGV5
DBGV4
DBGV3
DBGV2
DBGV1
DBGV0
DBGVM1
DBGVM2
CKX31
DAT31
CKD31
CS129
CS128
CLK1
CK6
3V
5V
C313 0.1
C319 0.1
C312 0.1
C318 0.1
C314 0.1
C315 0.1
C316 0.1
C317 0.1
313
312
314
315
316
317

Chromakey Upgrade Board
CRK-11 (3/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

BKDS-2032 (SY) : S/N 10001 and Higher



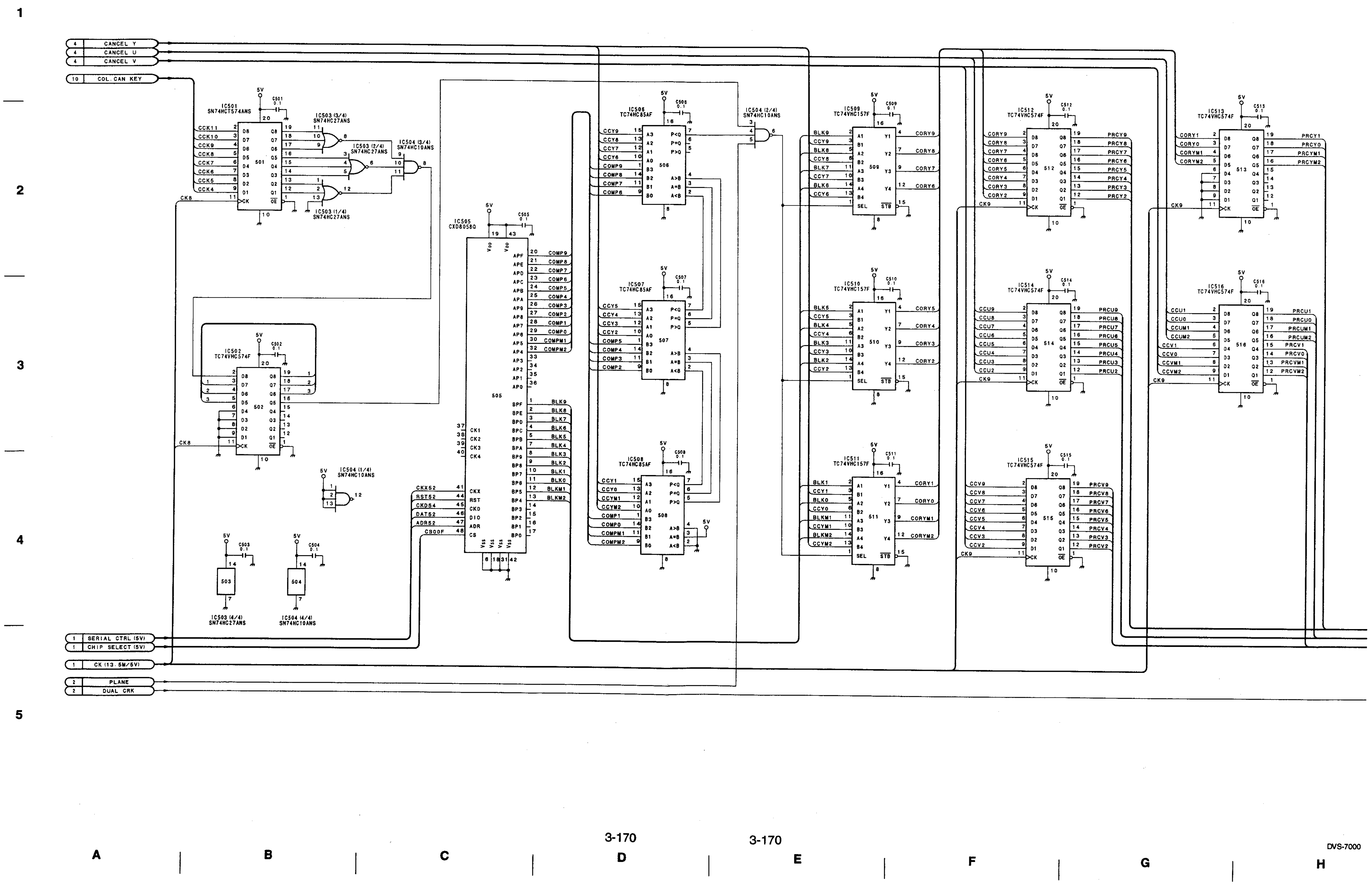
1
2
3
4
5
10 COL. CAN KEY
3 BKGD Y
3 BKGD U
3 BKGD V
CNB1
91 FRGD Y 9
92 FRGD Y 8
93 FRGD Y 7
94 FRGD Y 6
95 FRGD Y 5
96 FRGD Y 4
97 FRGD Y 3
98 FRGD Y 2
99 FRGD Y 1
100 FRGD Y 0
101 FRGD U 9
102 FRGD U 8
103 FRGD U 7
104 FRGD U 6
105 FRGD U 5
106 FRGD U 4
107 FRGD U 3
108 FRGD U 2
109 FRGD U 1
110 FRGD U 0
111 FRGD U -1
112 FRGD U -2
113 FRGD U -3
114 FRGD V 9
115 FRGD V 8
116 FRGD V 7
117 FRGD V 6
118 FRGD V 5
119 FRGD V 4
120 FRGD V 3
121 FRGD V 2
122 FRGD V 1
123 FRGD V 0
124 FRGD V -1
125 FRGD V -2
126 FRGD V -3
IC407 TC74VHC157F
IC408 TC74VHC157F
IC409 TC74VHC157F
IC404 TC74VHC157F
IC405 TC74VHC157F
IC406 TC74VHC157F
IC401 TC74VHC157F
IC402 TC74VHC157F
IC403 TC74VHC157F
IC412 CXD8875AR
3V
C407 0.1
C408 0.1
C409 0.1
C404 0.1
C405 0.1
C406 0.1
C401 0.1
C402 0.1
C403 0.1
C412 0.1
A1 B1 A2 B2 A3 B3 A4 B4 SEL STB Y1 Y2 Y3 Y4
FGV9 FGV8 FGV7 FGV6 FGV5 FGV4 FGV3 FGV2 FGV1 FGV0 FGVM1 FGVM2
FGU9 FGU8 FGU7 FGU6 FGU5 FGU4 FGU3 FGU2 FGU1 FGU0 FGUM1 FGUM2
FGY9 FGY8 FGY7 FGY6 FGY5 FGY4 FGY3 FGY2 FGY1 FGY0 FGUM3 FGVM3
DFGV9 DFGV8 DFGV7 DFGV6 DFGV5 DFGV4 DFGV3 DFGV2 DFGV1 DFGV0 DFGVM1 DFGVM2
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G INV RZ RCK TSTO OE Vss VDD
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
CLK2
2 DUAL CRK
2 VIDEO SAMPLE
2 FRGD DLY
1 CK (13.5M/3V)
1 CHIP SELECT (5V)
1 SERIAL CTRL (5V)
1 CK (13.5M/5V)
A
B
C
D
E
F
G
H


IC411
CXD8875AR
C411 0.1
3V
FGU9
FGU8
FGU7
FGU6
FGU5
FGU4
FGU3
FGU2
FGU1
FGU0
FGUM1
FGUM2
DFGU9
DFGU8
DFGU7
DFGU6
DFGU5
DFGU4
DFGU3
DFGU2
DFGU1
DFGU0
DFGUM1
DFGUM2
CLK2
RCK
TSTO
411
IC410
CXD8875AR
C410 0.1
FGY9
FGY8
FGY7
FGY6
FGY5
FGY4
FGY3
FGY2
FGY1
FGY0
DFGY9
DFGY8
DFGY7
DFGY6
DFGY5
DFGY4
DFGY3
DFGY2
DFGY1
DFGY0
410
IC413
CXD8063Q
C413 0.1
5V
CCK11
CCK10
CCK9
CCK8
CCK7
CCK6
CCK5
CCK4
CCK3
CCK2
CCK1
CCK0
CCY9
CCY8
CCY7
CCY6
CCY5
CCY4
CCY3
CCY2
CCY1
CCY0
CCYM1
CCYM2
413
CS008
ADR52
DIO5
CKX52
CKD54
CK7
RST52
IC414
CXD8063Q
C414 0.1
CCU9
CCU8
CCU7
CCU6
CCU5
CCU4
CCU3
CCU2
CCU1
CCU0
CCUM1
CCUM2
DFGV9
DFGV8
DFGV7
DFGV6
DFGV5
DFGV4
DFGV3
DFGV2
DFGV1
DFGV0
DFGVM1
DFGVM2
414
CS009
IC415
CXD8063Q
C415 0.1
CCV9
CCV8
CCV7
CCV6
CCV5
CCV4
CCV3
CCV2
CCV1
CCV0
CCVM1
CCVM2
415
CS00A
FRGD Y 8
FRGD U 7
FRGD V 7
CANCEL Y 5
CANCEL U 5
CANCEL V 5
1
2
3
4
5
I
J
K
L
M
N
O
P

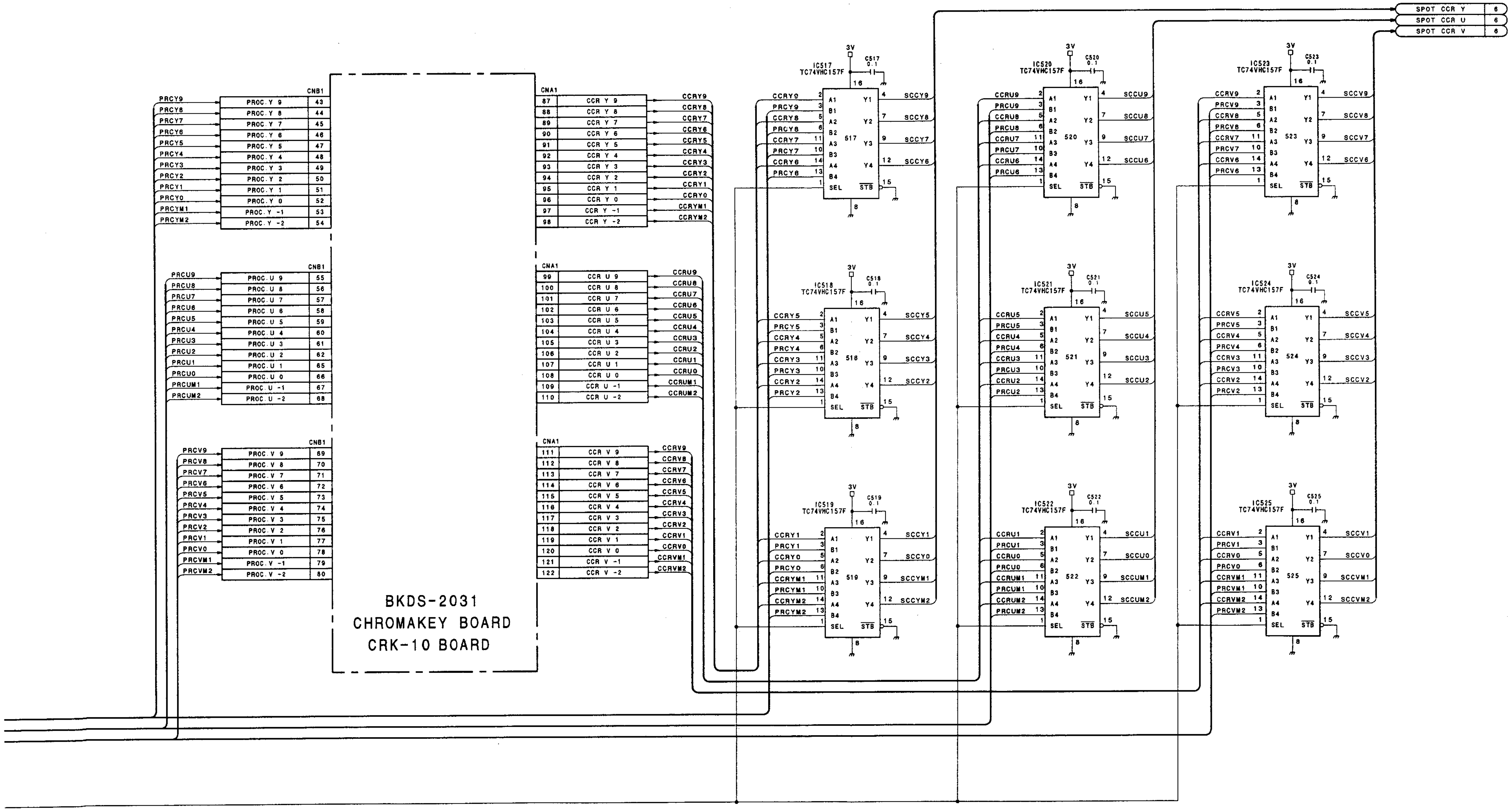
Chromakey Upgrade Board
CRK-11 (4/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

CRK-11 (5/12) Chromakey Upgrade Board

BKDS-2032 (SY) : S/N 10001 and Higher


CANCEL Y
CANCEL U
CANCEL V
COL. CAN KEY
SERIAL CTRL (5V)
CHIP SELECT (5V)
CK (13.5M/5V)
PLANE
DUAL CRK
IC501 SN74HCT574ANS
IC502 TC74VHC574F
IC503 (3/4) SN74HC27ANS
IC503 (2/4) SN74HC27ANS
IC503 (1/4) SN74HC27ANS
IC503 (4/4) SN74HC27ANS
IC504 (3/4) SN74HC10ANS
IC504 (2/4) SN74HC10ANS
IC504 (1/4) SN74HC10ANS
IC504 (4/4) SN74HC10ANS
IC505 CXD8058Q
IC506 TC74HC85AF
IC507 TC74HC85AF
IC508 TC74HC85AF
IC509 TC74VHC157F
IC510 TC74VHC157F
IC511 TC74VHC157F
IC512 TC74VHC574F
IC513 TC74VHC574F
IC514 TC74VHC574F
IC515 TC74VHC574F
IC516 TC74VHC574F
CKX52
RST52
CKD54
DAT52
ADR52
CS00F
COMP9
COMP8
COMP7
COMP6
COMP5
COMP4
COMP3
COMP2
COMP1
COMP0
COMPM1
COMPM2
BLK9
BLK8
BLK7
BLK6
BLK5
BLK4
BLK3
BLK2
BLK1
BLK0
BLKM1
BLKM2
CORY9
CORY8
CORY7
CORY6
CORY5
CORY4
CORY3
CORY2
CORY1
CORY0
CORYM1
CORYM2
PRCY9
PRCY8
PRCY7
PRCY6
PRCY5
PRCY4
PRCY3
PRCY2
PRCY1
PRCY0
PRCYM1
PRCYM2
PRCU9
PRCU8
PRCU7
PRCU6
PRCU5
PRCU4
PRCU3
PRCU2
PRCU1
PRCU0
PRCUM1
PRCUM2
PRCV9
PRCV8
PRCV7
PRCV6
PRCV5
PRCV4
PRCV3
PRCV2
PRCV1
PRCV0
PRCVM1
PRCVM2
CK8
CK9
5V
1
2
3
4
5
A
B
C
D
E
F
G
H

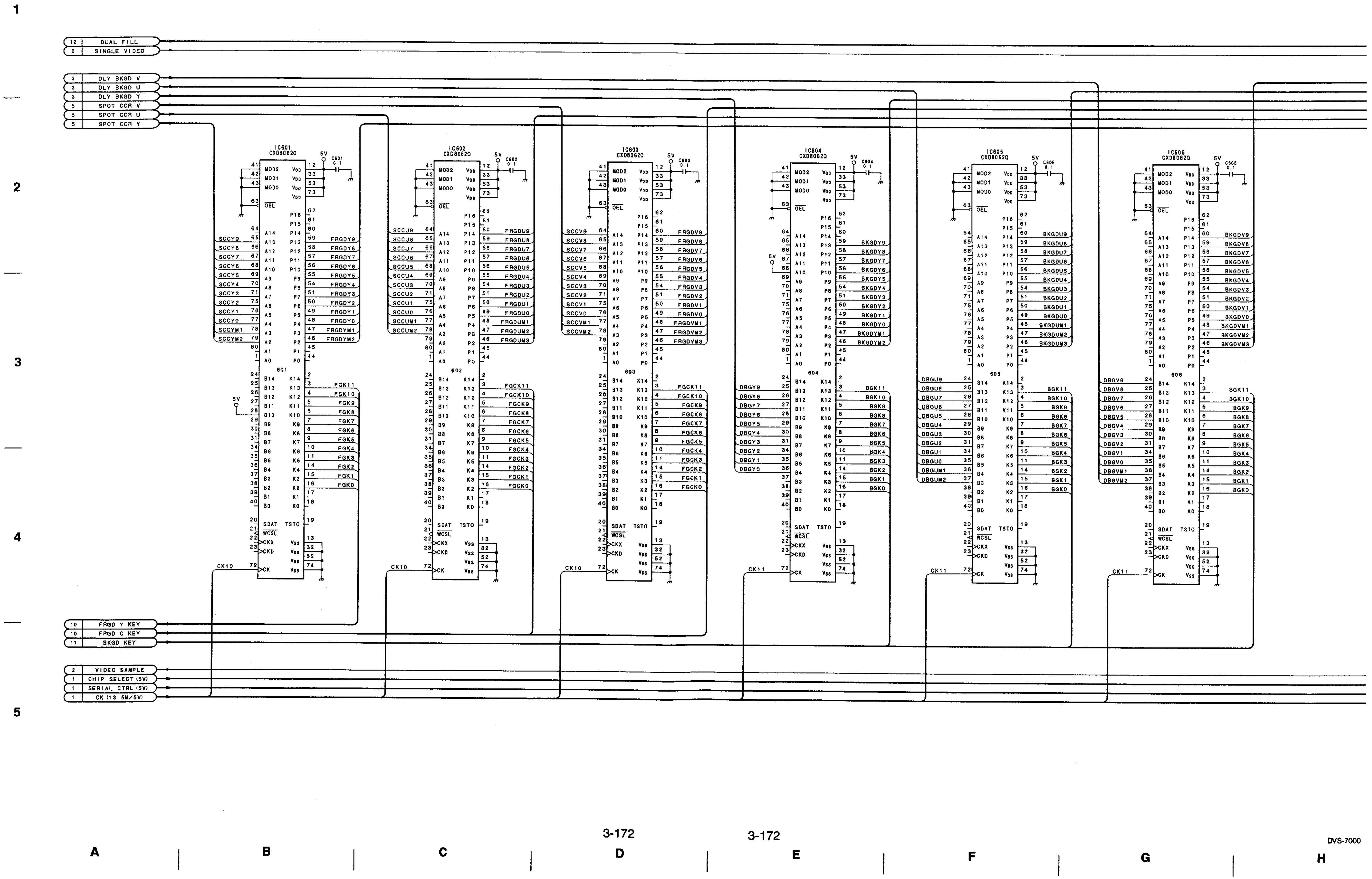
3-170


BKDS-2031
CHROMAKEY BOARD
CRK-10 BOARD
CNB1
CNA1
IC517 TC74VHC157F
IC518 TC74VHC157F
IC519 TC74VHC157F
IC520 TC74VHC157F
IC521 TC74VHC157F
IC522 TC74VHC157F
IC523 TC74VHC157F
IC524 TC74VHC157F
IC525 TC74VHC157F
3V
C517 0.1
C518 0.1
C519 0.1
C520 0.1
C521 0.1
C522 0.1
C523 0.1
C524 0.1
C525 0.1
SPOT CCR Y 6
SPOT CCR U 6
SPOT CCR V 6
A1 B1 A2 B2 A3 B3 A4 B4 SEL
Y1 Y2 Y3 Y4 STB

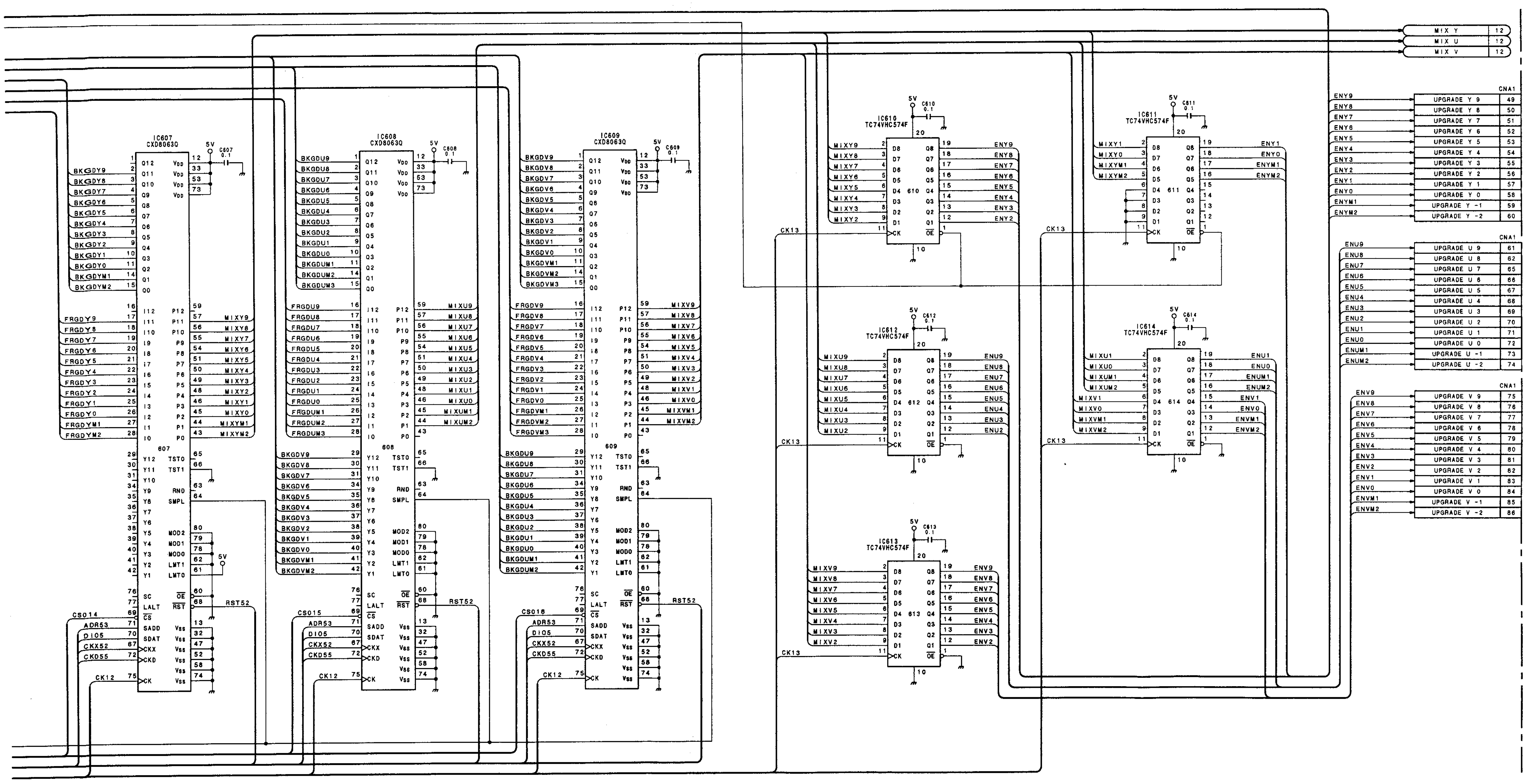
Chromakey Upgrade Board
CRK-11 (5/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

CRK-11 (6/12) Chromakey Upgrade Board

BKDS-2032 (SY) : S/N 10001 and Higher

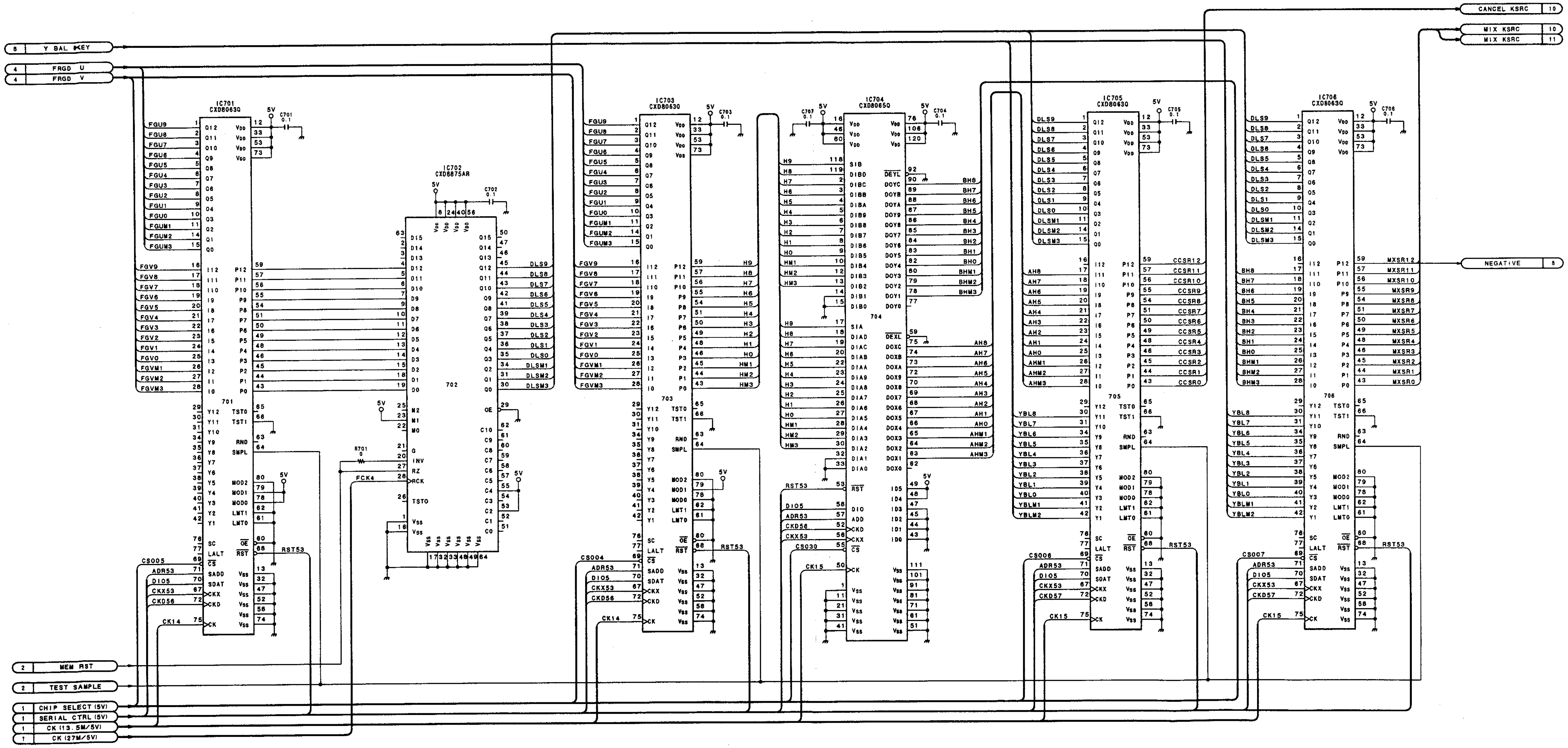

1
2
3
4
5
A
B
C
D
E
F
G
H
12 DUAL FILL
2 SINGLE VIDEO
3 DLY BKGD V
3 DLY BKGD U
3 DLY BKGD Y
5 SPOT CCR V
5 SPOT CCR U
5 SPOT CCR Y
IC601 CXD8062Q
IC602 CXD8062Q
IC603 CXD8062Q
IC604 CXD8062Q
IC605 CXD8062Q
IC606 CXD8062Q
C601 0.1
C602 0.1
C603 0.1
C604 0.1
C605 0.1
C606 0.1
5V
MOD2
MOD1
MOD0
OEL
VDD
VSS
SDAT
WCSL
CKX
CKD
CK
TSTO
601
602
603
604
605
606
SCCY9 SCCY8 SCCY7 SCCY6 SCCY5 SCCY4 SCCY3 SCCY2 SCCY1 SCCY0 SCCYM1 SCCYM2
FRGDY9 FRGDY8 FRGDY7 FRGDY6 FRGDY5 FRGDY4 FRGDY3 FRGDY2 FRGDY1 FRGDY0 FRGDYM1 FRGDYM2
FGK11 FGK10 FGK9 FGK8 FGK7 FGK6 FGK5 FGK4 FGK3 FGK2 FGK1 FGK0
SCCU9 SCCU8 SCCU7 SCCU6 SCCU5 SCCU4 SCCU3 SCCU2 SCCU1 SCCU0 SCCUM1 SCCUM2
FRGDU9 FRGDU8 FRGDU7 FRGDU6 FRGDU5 FRGDU4 FRGDU3 FRGDU2 FRGDU1 FRGDU0 FRGDUM1 FRGDUM2 FRGDUM3
FGCK11 FGCK10 FGCK9 FGCK8 FGCK7 FGCK6 FGCK5 FGCK4 FGCK3 FGCK2 FGCK1 FGCK0
SCCV9 SCCV8 SCCV7 SCCV6 SCCV5 SCCV4 SCCV3 SCCV2 SCCV1 SCCV0 SCCVM1 SCCVM2
FRGDV9 FRGDV8 FRGDV7 FRGDV6 FRGDV5 FRGDV4 FRGDV3 FRGDV2 FRGDV1 FRGDV0 FRGDVM1 FRGDVM2 FRGDVM3
BKGDY9 BKGDY8 BKGDY7 BKGDY6 BKGDY5 BKGDY4 BKGDY3 BKGDY2 BKGDY1 BKGDY0 BKGDYM1 BKGDYM2
DBGY9 DBGY8 DBGY7 DBGY6 DBGY5 DBGY4 DBGY3 DBGY2 DBGY1 DBGY0
BGK11 BGK10 BGK9 BGK8 BGK7 BGK6 BGK5 BGK4 BGK3 BGK2 BGK1 BGK0
BKGDU9 BKGDU8 BKGDU7 BKGDU6 BKGDU5 BKGDU4 BKGDU3 BKGDU2 BKGDU1 BKGDU0 BKGDUM1 BKGDUM2 BKGDUM3
DBGU9 DBGU8 DBGU7 DBGU6 DBGU5 DBGU4 DBGU3 DBGU2 DBGU1 DBGU0 DBGUM1 DBGUM2
BKGDV9 BKGDV8 BKGDV7 BKGDV6 BKGDV5 BKGDV4 BKGDV3 BKGDV2 BKGDV1 BKGDV0 BKGDVM1 BKGDVM2 BKGDVM3
DBGV9 DBGV8 DBGV7 DBGV6 DBGV5 DBGV4 DBGV3 DBGV2 DBGV1 DBGV0 DBGVM1 DBGVM2
CK10
CK11
10 FRGD Y KEY
10 FRGD C KEY
11 BKGD KEY
2 VIDEO SAMPLE
1 CHIP SELECT (5V)
1 SERIAL CTRL (5V)
1 CK (13.5M/5V)

3-172


IC607
CXD8063Q
IC608
CXD8063Q
IC609
CXD8063Q
IC610
TC74VHC574F
IC611
TC74VHC574F
IC612
TC74VHC574F
IC613
TC74VHC574F
IC614
TC74VHC574F
5V
C607 0.1
C608 0.1
C609 0.1
C610 0.1
C611 0.1
C612 0.1
C613 0.1
C614 0.1
BKGDY9
BKGDY8
BKGDY7
BKGDY6
BKGDY5
BKGDY4
BKGDY3
BKGDY2
BKGDY1
BKGDY0
BKGDYM1
BKGDYM2
FRGDY9
FRGDY8
FRGDY7
FRGDY6
FRGDY5
FRGDY4
FRGDY3
FRGDY2
FRGDY1
FRGDY0
FRGDYM1
FRGDYM2
BKGDU9
BKGDU8
BKGDU7
BKGDU6
BKGDU5
BKGDU4
BKGDU3
BKGDU2
BKGDU1
BKGDU0
BKGDUM1
BKGDUM2
BKGDUM3
FRGDU9
FRGDU8
FRGDU7
FRGDU6
FRGDU5
FRGDU4
FRGDU3
FRGDU2
FRGDU1
FRGDU0
FRGDUM1
FRGDUM2
FRGDUM3
BKGDV9
BKGDV8
BKGDV7
BKGDV6
BKGDV5
BKGDV4
BKGDV3
BKGDV2
BKGDV1
BKGDV0
BKGDVM1
BKGDVM2
BKGDVM3
FRGDV9
FRGDV8
FRGDV7
FRGDV6
FRGDV5
FRGDV4
FRGDV3
FRGDV2
FRGDV1
FRGDV0
FRGDVM1
FRGDVM2
FRGDVM3
Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
I12 I11 I10 I9 I8 I7 I6 I5 I4 I3 I2 I1 I0
P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1 P0
Y12 Y11 Y10 Y9 Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
VDD
VSS
TST0
TST1
RND
SMPL
MOD2
MOD1
MOD0
LMT1
LMT0
SC
LALT
CS
SADD
SDAT
CKX
CKD
CK
OE
RST
RST52
CS014
CS015
CS018
ADR53
DIO5
CKX52
CKD55
CK12
CK13
MIXY9 MIXY8 MIXY7 MIXY6 MIXY5 MIXY4 MIXY3 MIXY2 MIXY1 MIXY0 MIXYM1 MIXYM2
MIXU9 MIXU8 MIXU7 MIXU6 MIXU5 MIXU4 MIXU3 MIXU2 MIXU1 MIXU0 MIXUM1 MIXUM2
MIXV9 MIXV8 MIXV7 MIXV6 MIXV5 MIXV4 MIXV3 MIXV2 MIXV1 MIXV0 MIXVM1 MIXVM2
D8 D7 D6 D5 D4 D3 D2 D1
Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1
ENY9 ENY8 ENY7 ENY6 ENY5 ENY4 ENY3 ENY2 ENY1 ENY0 ENYM1 ENYM2
ENU9 ENU8 ENU7 ENU6 ENU5 ENU4 ENU3 ENU2 ENU1 ENU0 ENUM1 ENUM2
ENV9 ENV8 ENV7 ENV6 ENV5 ENV4 ENV3 ENV2 ENV1 ENV0 ENVM1 ENVM2
MIX Y 12
MIX U 12
MIX V 12
CNA1
UPGRADE Y 9 49
UPGRADE Y 8 50
UPGRADE Y 7 51
UPGRADE Y 6 52
UPGRADE Y 5 53
UPGRADE Y 4 54
UPGRADE Y 3 55
UPGRADE Y 2 56
UPGRADE Y 1 57
UPGRADE Y 0 58
UPGRADE Y -1 59
UPGRADE Y -2 60
UPGRADE U 9 61
UPGRADE U 8 62
UPGRADE U 7 65
UPGRADE U 6 66
UPGRADE U 5 67
UPGRADE U 4 68
UPGRADE U 3 69
UPGRADE U 2 70
UPGRADE U 1 71
UPGRADE U 0 72
UPGRADE U -1 73
UPGRADE U -2 74
UPGRADE V 9 75
UPGRADE V 8 76
UPGRADE V 7 77
UPGRADE V 6 78
UPGRADE V 5 79
UPGRADE V 4 80
UPGRADE V 3 81
UPGRADE V 2 82
UPGRADE V 1 83
UPGRADE V 0 84
UPGRADE V -1 85
UPGRADE V -2 86
1
2
3
4
5
I
J
K
L
M
N
O
P

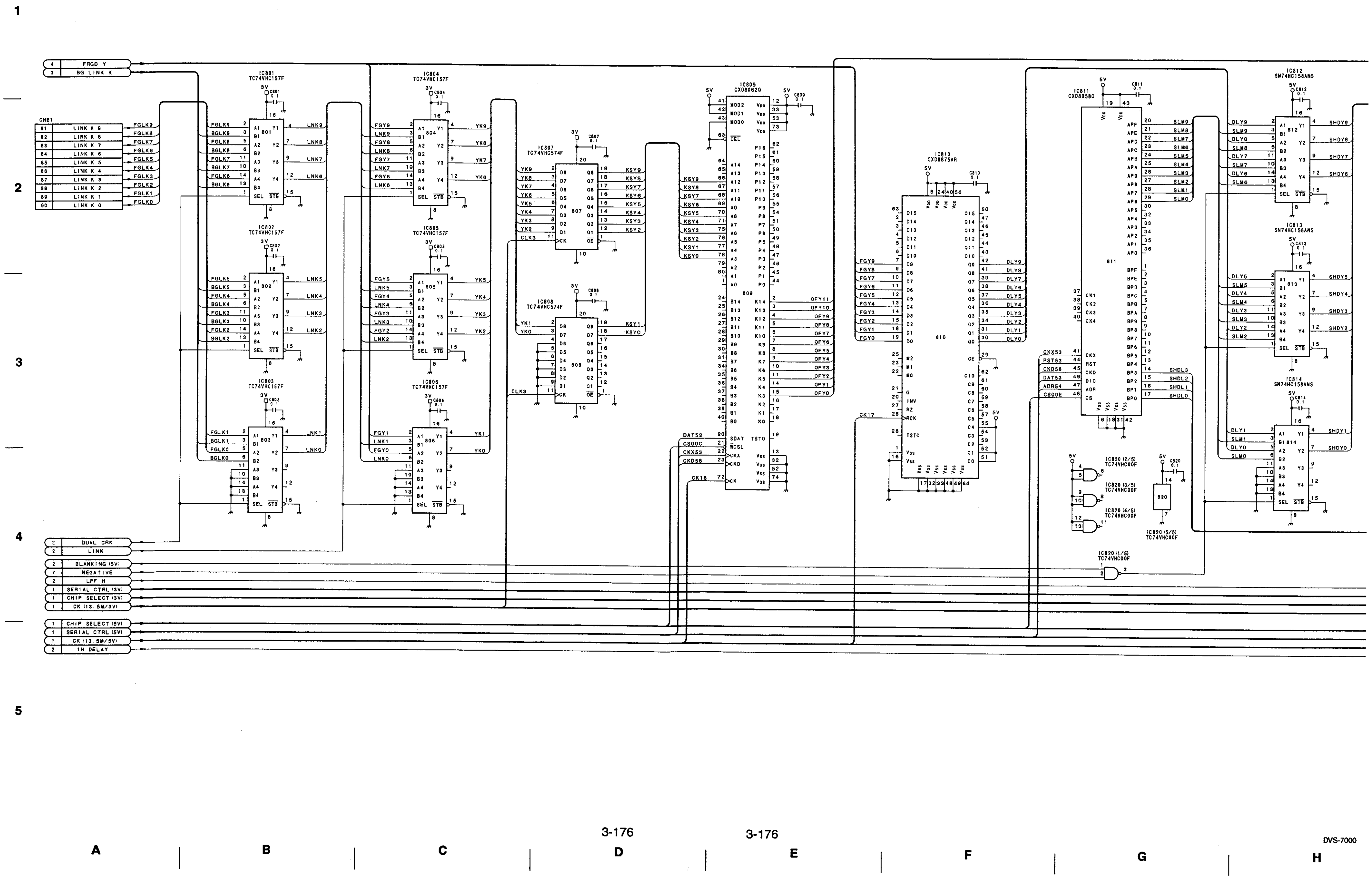
Chromakey Upgrade Board
CRK-11 (6/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

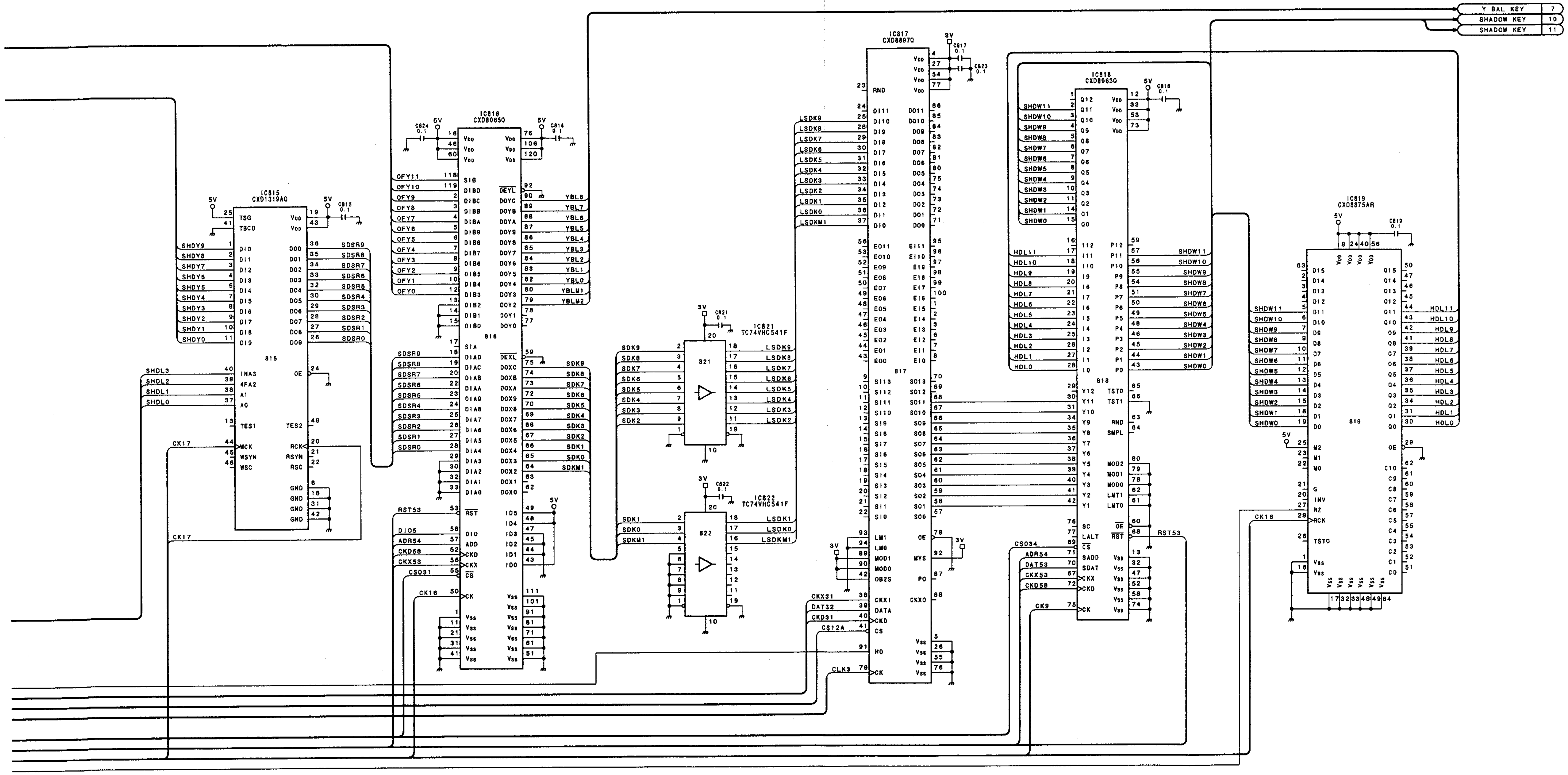
BKDS-2032 (SY) : S/N 10001 and Higher


1
2
3
4
5
Y BAL KEY
FRGD U
FRGD V
IC701 CXD8063Q
IC702 CXD8875AR
IC703 CXD8063Q
IC704 CXD8065Q
IC705 CXD8063Q
IC706 CXD8063Q
C701 0.1
C702 0.1
C703 0.1
C704 0.1
C705 0.1
C706 0.1
C707 0.1
R701 0
5V
CANCEL KSRC
MIX KSRC
MIX KSRC
NEGATIVE
MEM RST
TEST SAMPLE
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (27M/5V)
RST53
CS005
CS004
CS030
CS006
CS007
ADR53
DIO5
CKX53
CKD56
CKD57
CK14
CK15
FCK4
DLSM1
DLSM2
DLSM3
CCSR12
MXSR12

Chromakey Upgrade Board
CRK-11 (7/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

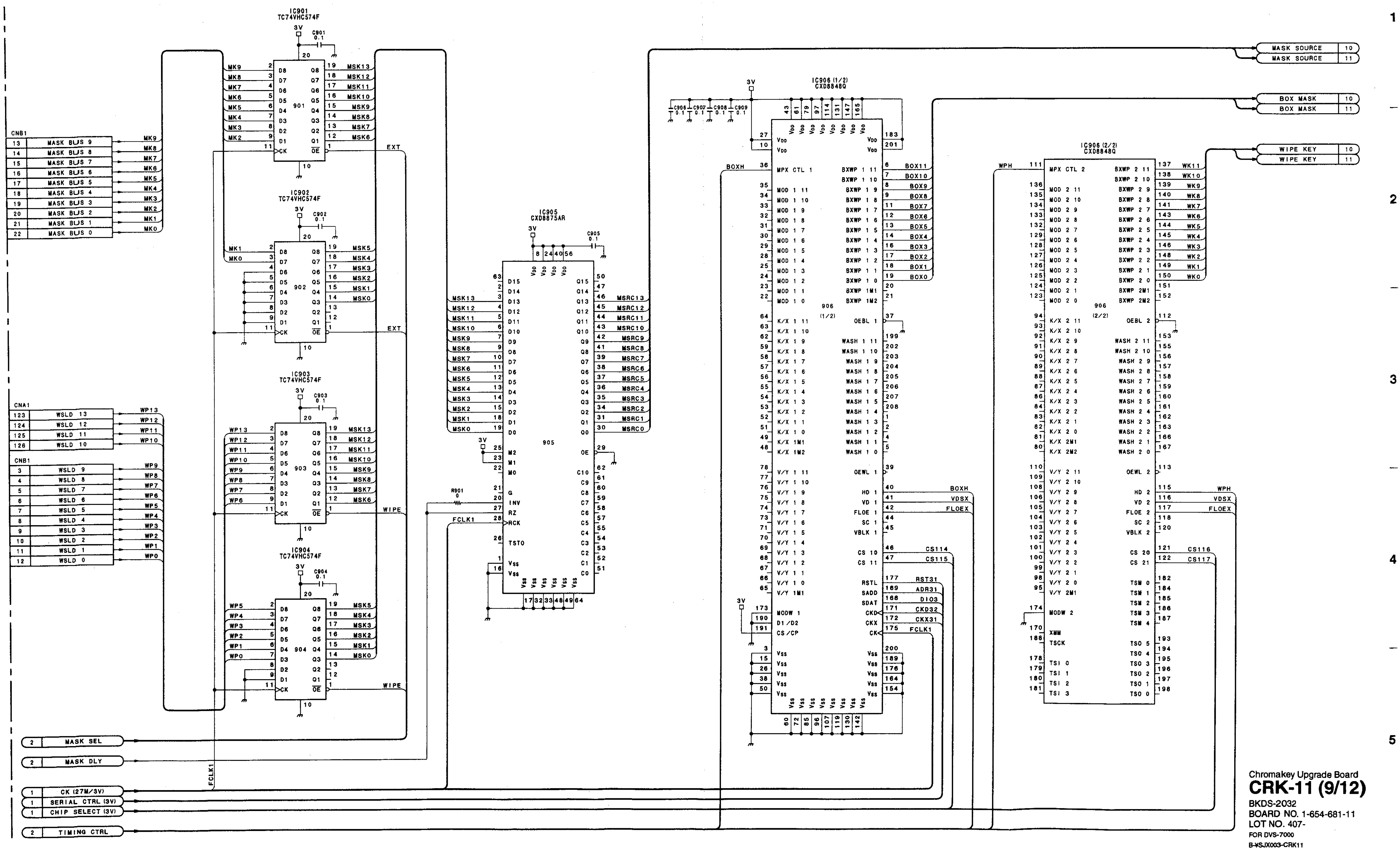
BKDS-2032 (SY) : S/N 10001 and Higher


1
2
3
4
5
FRGD Y
BG LINK K
CN81
LINK K 9
LINK K 8
LINK K 7
LINK K 6
LINK K 5
LINK K 4
LINK K 3
LINK K 2
LINK K 1
LINK K 0
IC801 TC74VHC157F
IC802 TC74VHC157F
IC803 TC74VHC157F
IC804 TC74VHC157F
IC805 TC74VHC157F
IC806 TC74VHC157F
IC807 TC74VHC574F
IC808 TC74VHC574F
IC809 CXD8062Q
IC810 CXD8875AR
IC811 CXD8058Q
IC812 SN74HC158ANS
IC813 SN74HC158ANS
IC814 SN74HC158ANS
IC820 (1/5) TC74VHC00F
IC820 (2/5) TC74VHC00F
IC820 (3/5) TC74VHC00F
IC820 (4/5) TC74VHC00F
IC820 (5/5) TC74VHC00F
DUAL CRK
LINK
BLANKING (5V)
NEGATIVE
LPF H
SERIAL CTRL (3V)
CHIP SELECT (3V)
CK (13.5M/3V)
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
1H DELAY
CLK3
CK17
CK18
DAT53
CS00C
CKX53
CKD58
RST53
CKD58
ADR54
CS00E
A
B
C
D
E
F
G
H


IC815
CXD1319AQ
IC816
CXD8065Q
IC817
CXD8897Q
IC818
CXD8063Q
IC819
CXD8875AR
IC821
TC74VHC541F
IC822
TC74VHC541F
Y BAL KEY
SHADOW KEY
SHADOW KEY
5V
3V
C813 0.1
C814 0.1
C816 0.1
C817 0.1
C819 0.1
C821 0.1
C822 0.1
C823 0.1
C824 0.1
SHDY0–SHDY9
SDSR0–SDSR9
SHDL0–SHDL3
OFY0–OFY11
YBL0–YBL8
YBLM1
YBLM2
SDK0–SDK9
SDKM1
LSDK0–LSDK9
LSDKM1
SHDW0–SHDW11
HDL0–HDL11
CK17
CK16
CK9
CLK3
RST53
DIO5
ADR54
CKD58
CKX53
CS031
CS034
DAT53
CKX31
DAT32
CKD31
CS12A

Chromakey Upgrade Board
CRK-11 (8/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

BKDS-2032 (SY) : S/N 10001 and Higher


IC901
TC74VHC574F
IC902
TC74VHC574F
IC903
TC74VHC574F
IC904
TC74VHC574F
IC905
CXD8875AR
IC906 (1/2)
CXD8848Q
IC906 (2/2)
CXD8848Q
CNB1
CNA1
MASK BUS 9
MASK BUS 8
MASK BUS 7
MASK BUS 6
MASK BUS 5
MASK BUS 4
MASK BUS 3
MASK BUS 2
MASK BUS 1
MASK BUS 0
WSLD 13
WSLD 12
WSLD 11
WSLD 10
WSLD 9
WSLD 8
WSLD 7
WSLD 6
WSLD 5
WSLD 4
WSLD 3
WSLD 2
WSLD 1
WSLD 0
EXT
WIPE
FCLK1
R901 0
MASK SOURCE 10
MASK SOURCE 11
BOX MASK 10
BOX MASK 11
WIPE KEY 10
WIPE KEY 11
BOXH
WPH
VDSX
FLOEX
CS114
CS115
CS116
CS117
RST31
ADR31
DIO3
CKD32
CKX31
MASK SEL
MASK DLY
CK (27M/3V)
SERIAL CTRL (3V)
CHIP SELECT (3V)
TIMING CTRL
1
2
3
4
5
A
B
C
D
E
F
G
H

Chromakey Upgrade Board
CRK-11 (9/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

BKDS-2032 (SY) : S/N 10001 and Higher

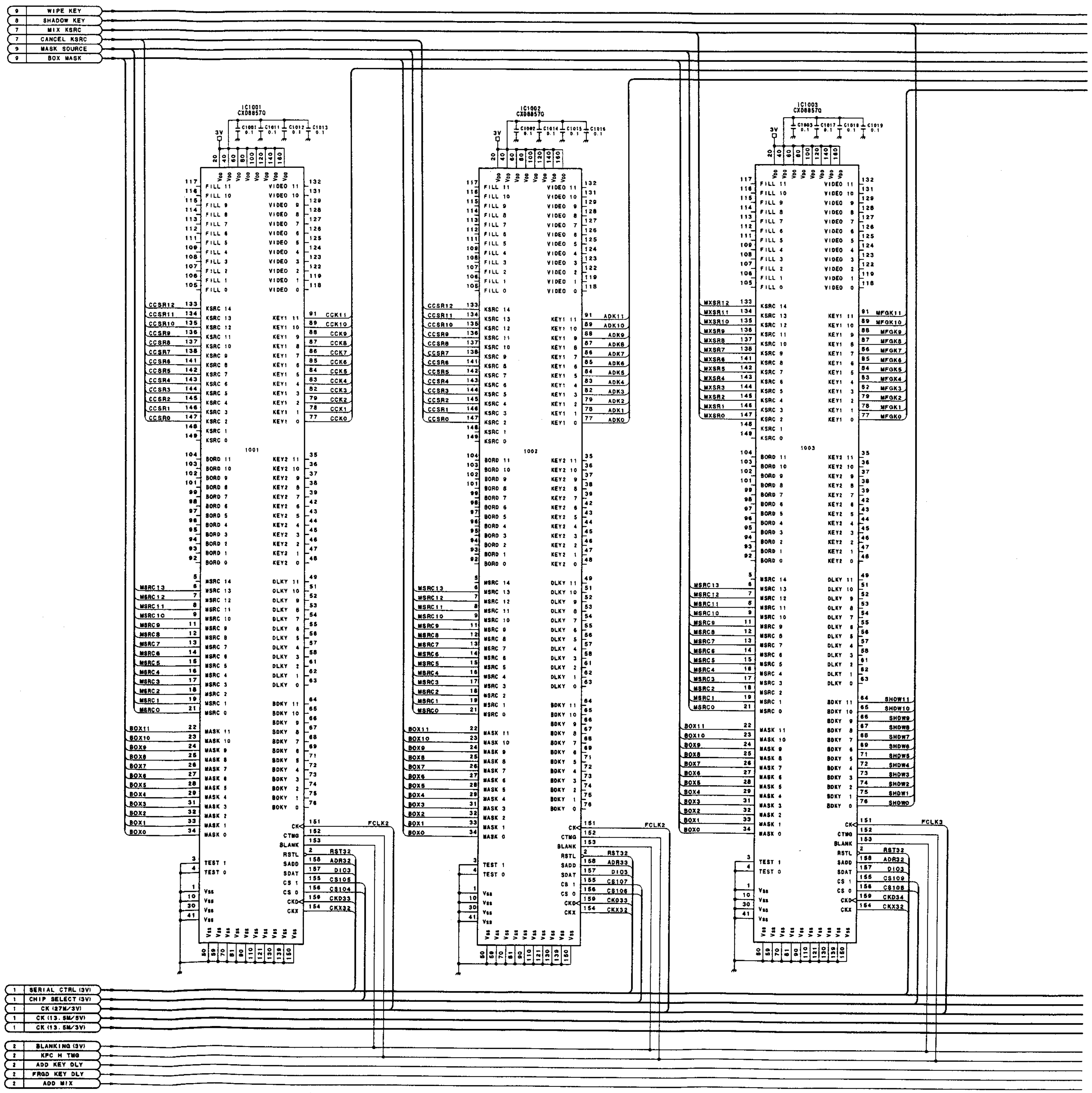
1

2

3

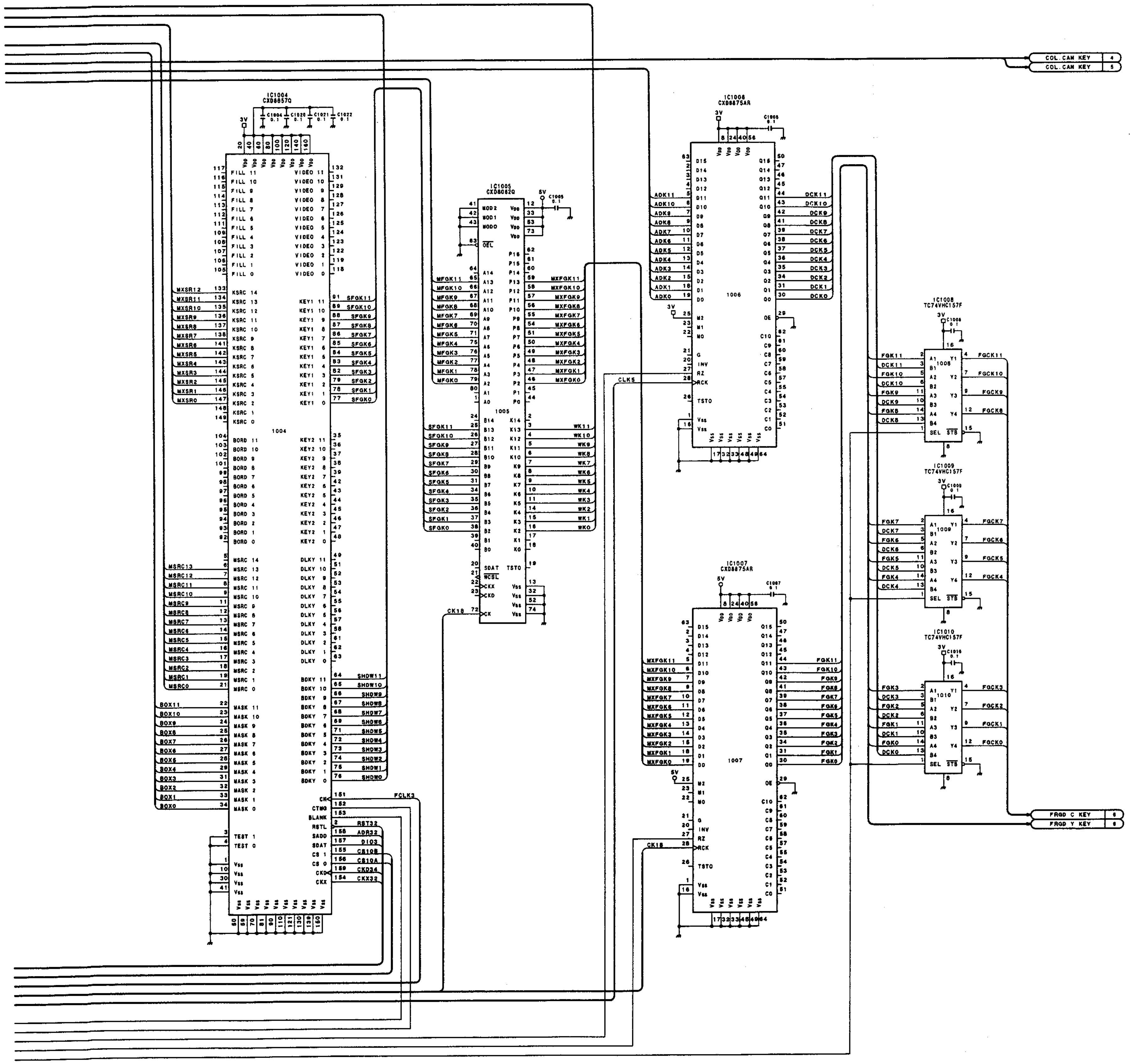
4

5



9 WIPE KEY
8 SHADOW KEY
7 MIX KSRC
7 CANCEL KSRC
9 MASK SOURCE
9 BOX MASK
IC1001 CXD8857Q
C1001 0.1
C1011 0.1
C1012 0.1
C1013 0.1
3V
IC1002 CXD8857Q
IC1003 CXD8857Q
FILL 11
VIDEO 11
KSRC 14
KEY1 11
BORD 11
KEY2 11
MSRC 14
DLKY 11
BDKY 11
MASK 11
CCSR12
CCK11
ADK11
MXSR12
MFGK11
MSRC13
BOX11
SHDW11
FCLK2
RST32
ADR32
DIO3
CS106
CS104
CK033
CKX32
CK
CTMG
BLANK
RSTL
SADD
SDAT
CS 1
CS 0
CKX
TEST 1
TEST 0
Vss
VDD
1 SERIAL CTRL (3V)
1 CHIP SELECT (3V)
1 CK (27M/3V)
1 CK (13.5M/5V)
1 CK (13.5M/3V)
2 BLANKING (3V)
2 KPC H TMG
2 ADD KEY DLY
2 FRGD KEY DLY
2 ADD MIX

CRK-11 (10/12) Chromakey Upgrade Board

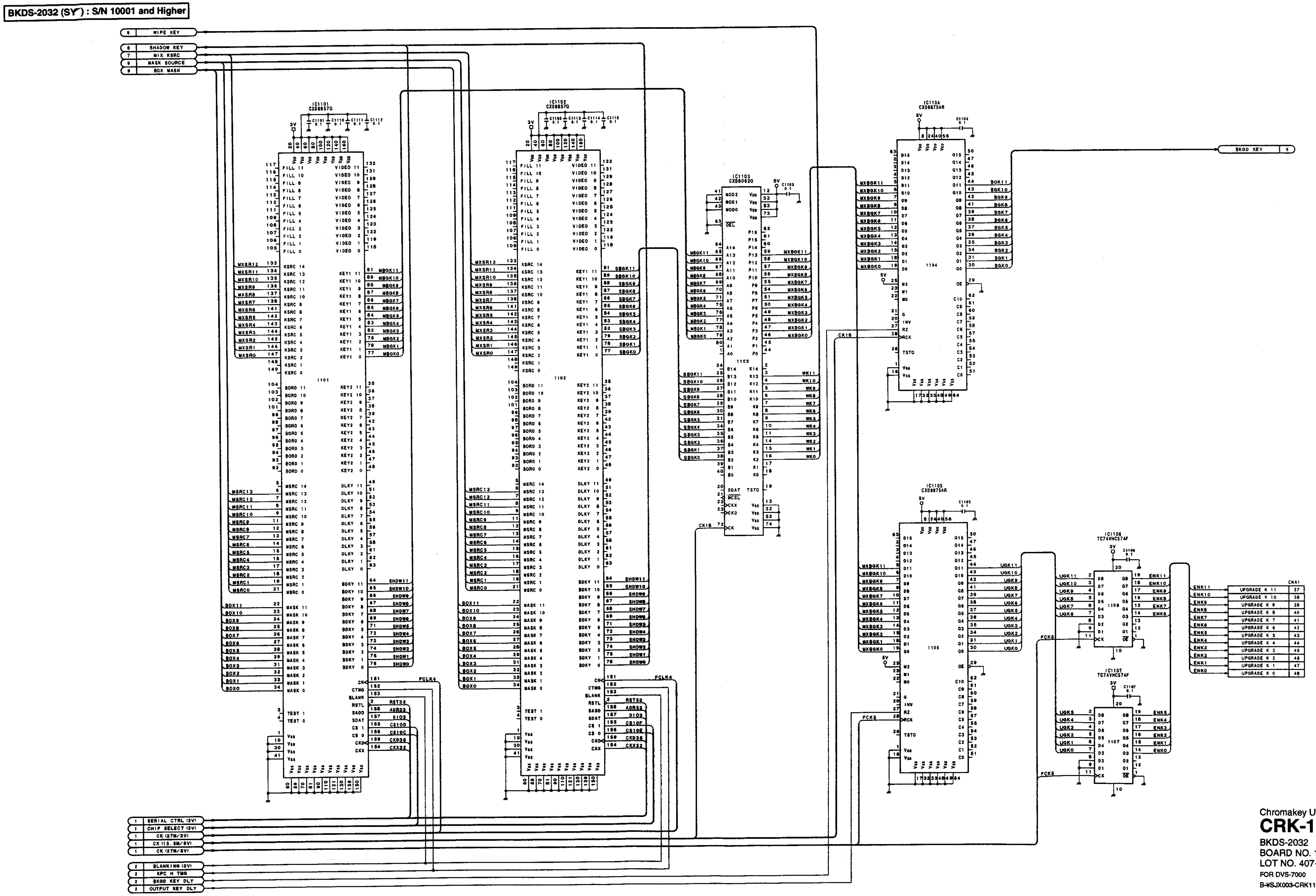

IC1004
CXD8657Q
1004
IC1005
CXD8082Q
1005
IC1006
CXD8875AR
1006
IC1007
CXD8875AR
1007
IC1008
TC74VHC157F
1008
IC1009
TC74VHC157F
1009
IC1010
TC74VHC157F
1010
COL.CAN KEY 4
COL.CAN KEY 5
FRGD C KEY 6
FRGD Y KEY 6
3V
5V
CLK5
CK18
FCLK3
RBT32
ADR32
DI03
CS10B
CS10A
CKD34
CKX33

1
2
3
4
5

Chromakey Upgrade Board
CRK-11 (10/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

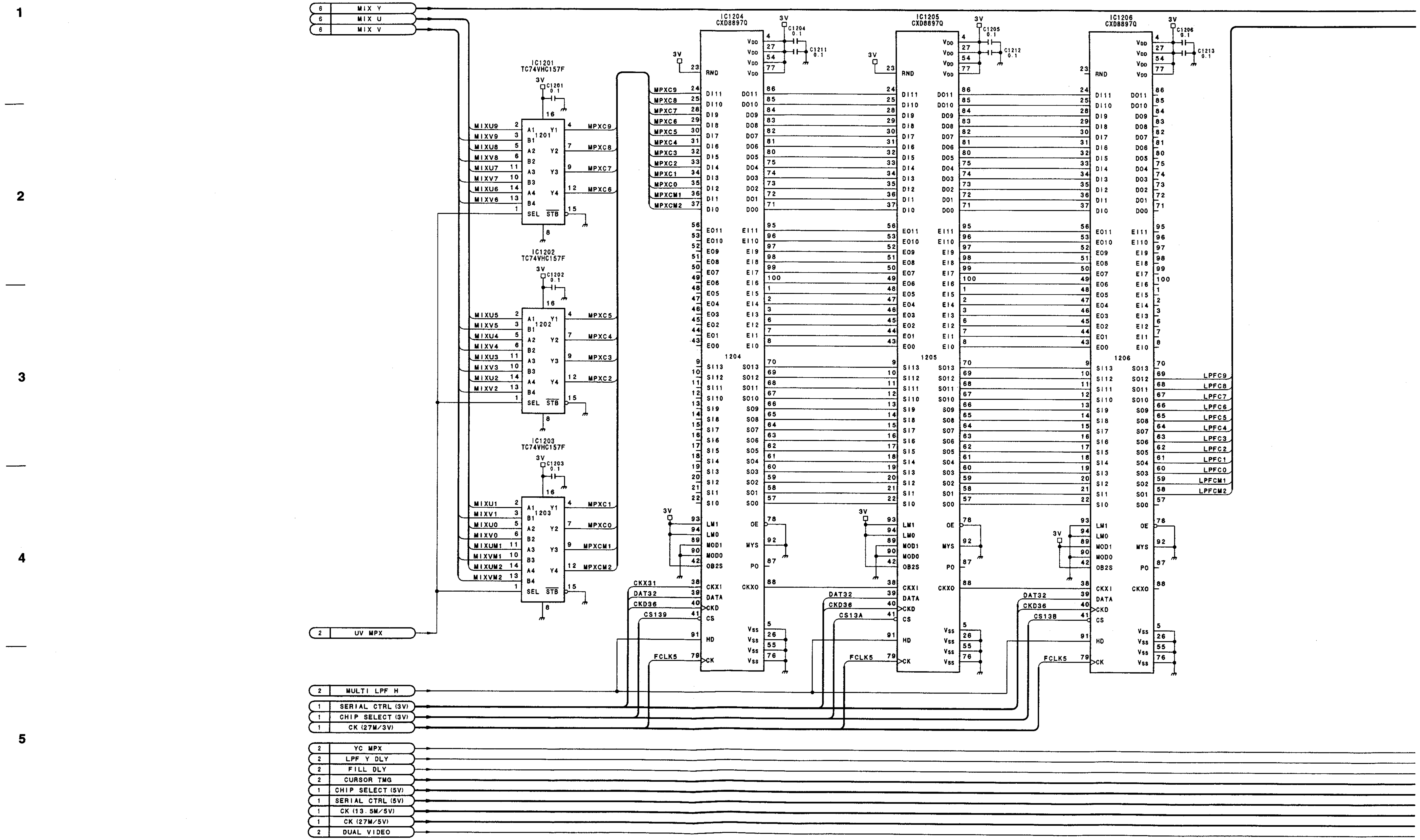
3-181

I
J
K
L
M
N
O
P

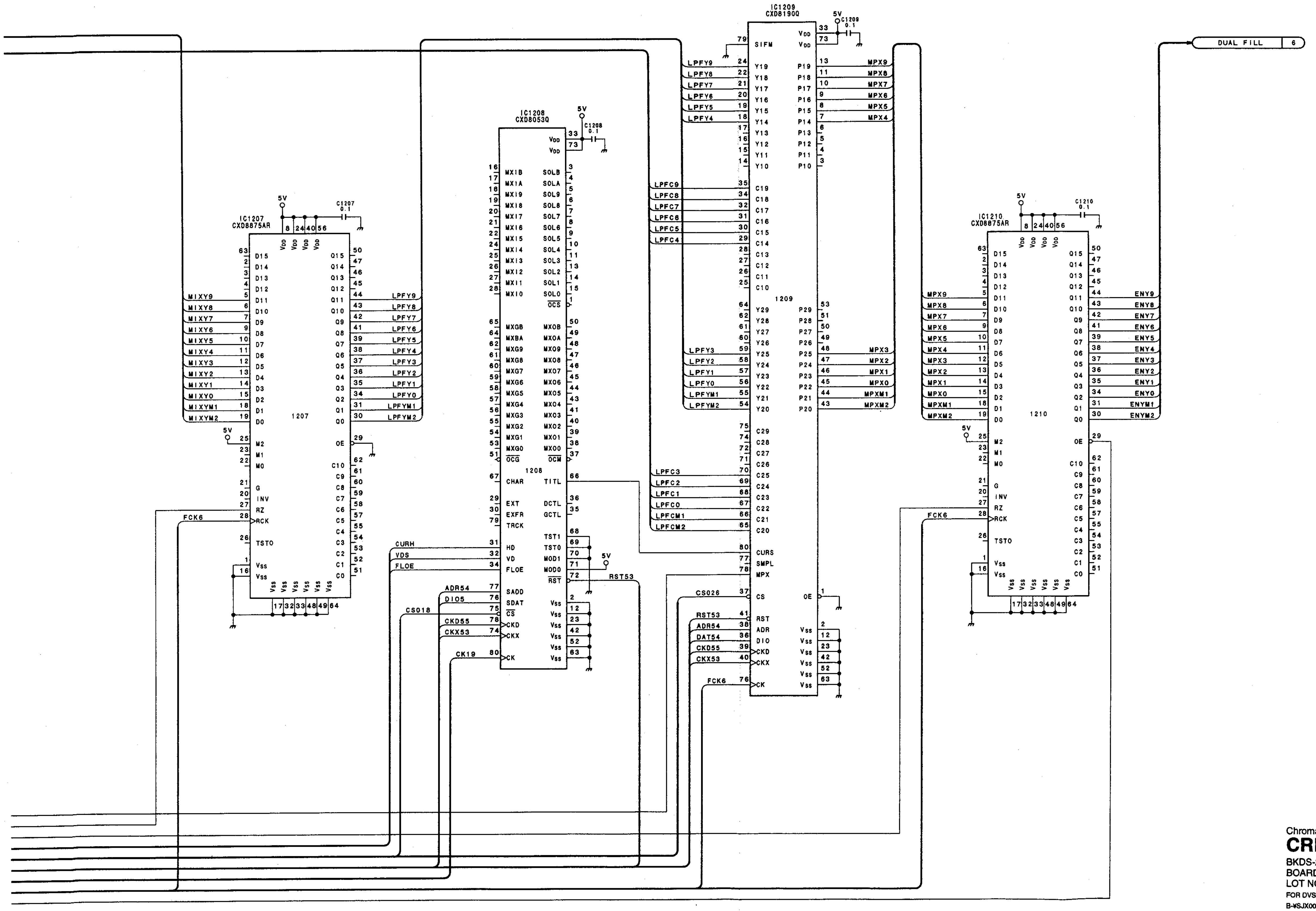

BKDS-2032 (SY) : S/N 10001 and Higher
WIPE KEY
SHADOW KEY
MIX KSRC
MASK SOURCE
BOX MASK
IC1101 CXD8857Q
IC1102 CXD8857Q
IC1103 CXD8062Q
IC1104 CXD8875AR
IC1105 CXD8875AR
IC1106 TC74VHC574F
IC1107 TC74VHC574F
BKGD KEY
CNA1
UPGRADE K 11
UPGRADE K 10
UPGRADE K 9
UPGRADE K 8
UPGRADE K 7
UPGRADE K 6
UPGRADE K 5
UPGRADE K 4
UPGRADE K 3
UPGRADE K 2
UPGRADE K 1
UPGRADE K 0
SERIAL CTRL (3V)
CHIP SELECT (3V)
CK (27M/3V)
CK (13.5M/5V)
CK (27M/5V)
BLANKING (3V)
KPC H TMG
BKGD KEY DLY
OUTPUT KEY DLY
FCLK4
CK18
FCK5
1
2
3
4
5

Chromakey Upgrade Board
CRK-11 (11/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

BKDS-2032 (SY) : S/N 10001 and Higher

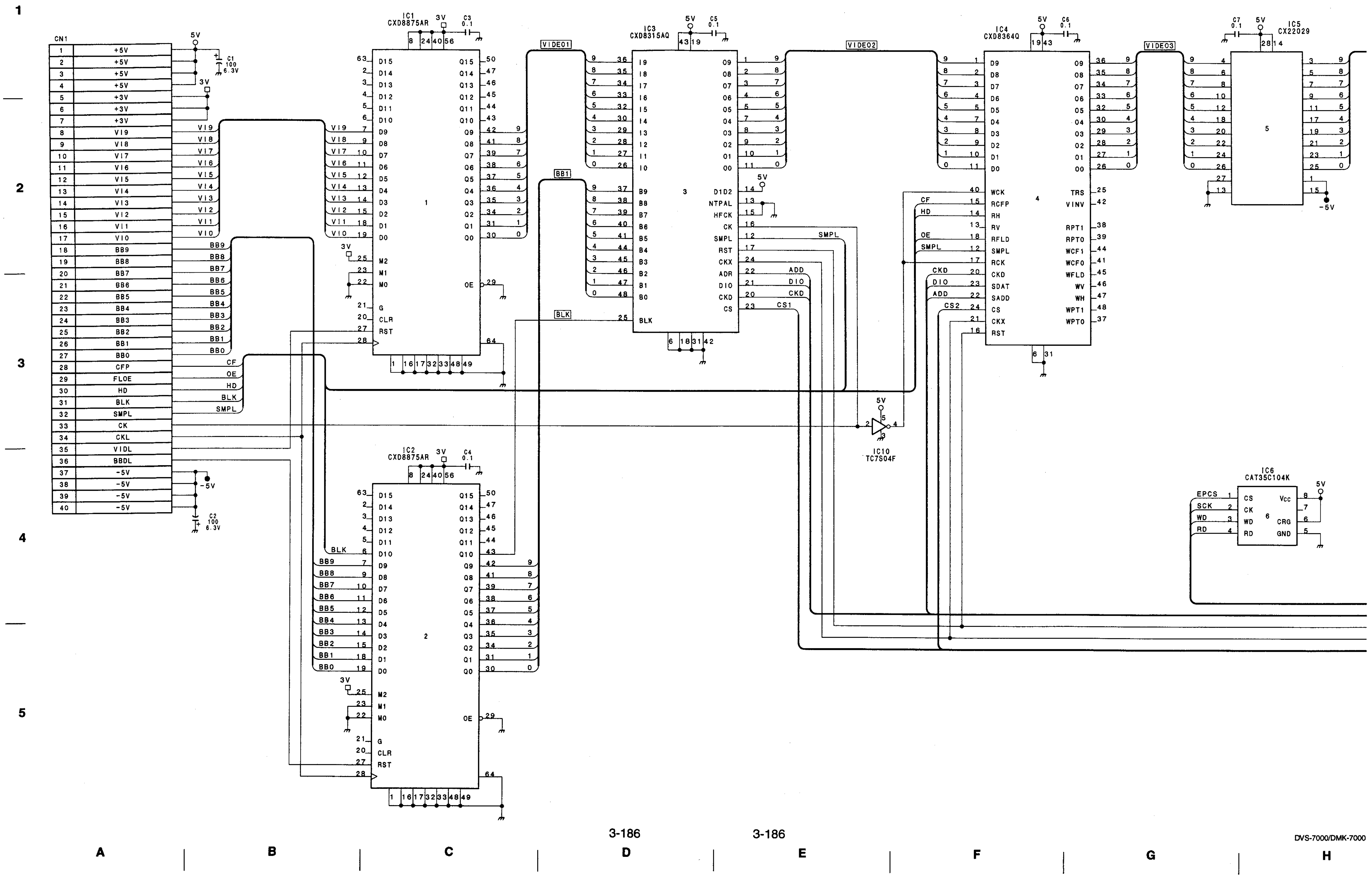

1
2
3
4
5
MIX Y
MIX U
MIX V
UV MPX
MULTI LPF H
SERIAL CTRL (3V)
CHIP SELECT (3V)
CK (27M/3V)
YC MPX
LPF Y DLY
FILL DLY
CURSOR TMG
CHIP SELECT (5V)
SERIAL CTRL (5V)
CK (13.5M/5V)
CK (27M/5V)
DUAL VIDEO
IC1201 TC74VHC157F
IC1202 TC74VHC157F
IC1203 TC74VHC157F
C1201 0.1
C1202 0.1
C1203 0.1
3V
MIXU9 MIXV9 MIXU8 MIXV8 MIXU7 MIXV7 MIXU6 MIXV6
MIXU5 MIXV5 MIXU4 MIXV4 MIXU3 MIXV3 MIXU2 MIXV2
MIXU1 MIXV1 MIXU0 MIXV0 MIXUM1 MIXVM1 MIXUM2 MIXVM2
A1 B1 A2 B2 A3 B3 A4 B4 SEL Y1 Y2 Y3 Y4 STB
MPXC9 MPXC8 MPXC7 MPXC6 MPXC5 MPXC4 MPXC3 MPXC2 MPXC1 MPXC0 MPXCM1 MPXCM2
IC1204 CXD8897Q
IC1205 CXD8897Q
IC1206 CXD8897Q
C1204 0.1
C1205 0.1
C1206 0.1
C1211 0.1
C1212 0.1
C1213 0.1
VDD RND
DI11 DI10 DI9 DI8 DI7 DI6 DI5 DI4 DI3 DI2 DI1 DI0
DO11 DO10 DO9 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 DO0
EO11 EO10 EO9 EO8 EO7 EO6 EO5 EO4 EO3 EO2 EO1 EO0
EI11 EI10 EI9 EI8 EI7 EI6 EI5 EI4 EI3 EI2 EI1 EI0
SI13 SI12 SI11 SI10 SI9 SI8 SI7 SI6 SI5 SI4 SI3 SI2 SI1 SI0
SO13 SO12 SO11 SO10 SO9 SO8 SO7 SO6 SO5 SO4 SO3 SO2 SO1 SO0
LM1 LM0 MOD1 MOD0 OB2S OE MYS PO
CKXI CKXO DATA CKD CS HD CK VSS
1204
1205
1206
CKX31
DAT32
CKD36
CS139
CS13A
CS13B
FCLK5
LPFC9 LPFC8 LPFC7 LPFC6 LPFC5 LPFC4 LPFC3 LPFC2 LPFC1 LPFC0 LPFCM1 LPFCM2

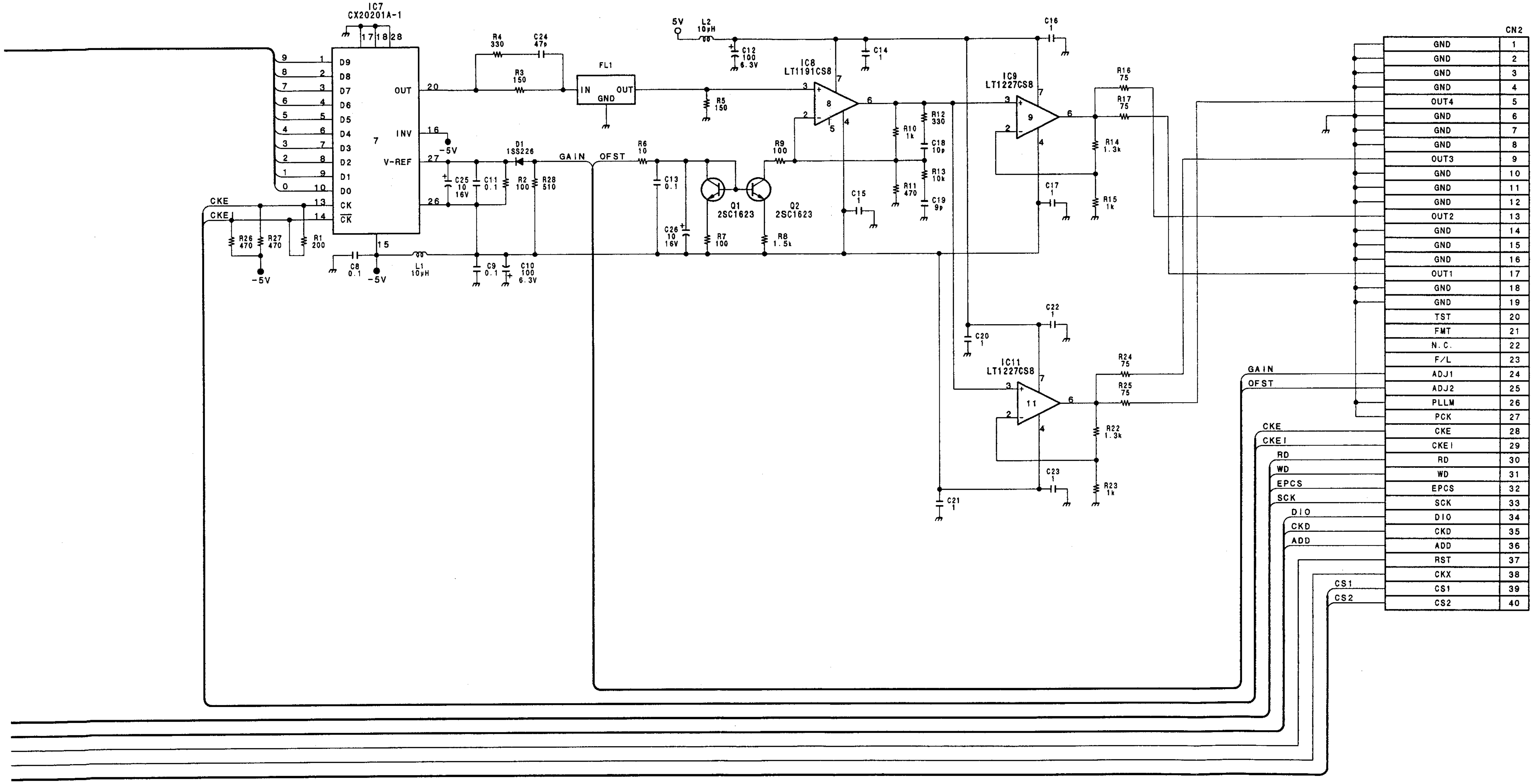
A | B | C | D | E | F | G | H


IC1207
CXD8875AR
IC1208
CXD8053Q
IC1209
CXD8190Q
IC1210
CXD8875AR
C1207 0.1
C1208 0.1
C1209 0.1
C1210 0.1
5V
DUAL FILL
6
MIXY9 MIXY8 MIXY7 MIXY6 MIXY5 MIXY4 MIXY3 MIXY2 MIXY1 MIXY0 MIXYM1 MIXYM2
LPFY9 LPFY8 LPFY7 LPFY6 LPFY5 LPFY4 LPFY3 LPFY2 LPFY1 LPFY0 LPFYM1 LPFYM2
LPFC9 LPFC8 LPFC7 LPFC6 LPFC5 LPFC4 LPFC3 LPFC2 LPFC1 LPFC0 LPFCM1 LPFCM2
MPX9 MPX8 MPX7 MPX6 MPX5 MPX4 MPX3 MPX2 MPX1 MPX0 MPXM1 MPXM2
ENY9 ENY8 ENY7 ENY6 ENY5 ENY4 ENY3 ENY2 ENY1 ENY0 ENYM1 ENYM2
FCK6
CURH
VDS
FLOE
ADR54
DIO5
CS018
CKD55
CKX53
CK19
RST53
CS026
DAT54
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G INV RZ RCK TSTO OE
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
VDD VSS
MX1B MX1A MX19 MX18 MX17 MX16 MX15 MX14 MX13 MX12 MX11 MX10
SOLB SOLA SOL9 SOL8 SOL7 SOL6 SOL5 SOL4 SOL3 SOL2 SOL1 SOL0 OCS
MXGB MXGA MXG9 MXG8 MXG7 MXG6 MXG5 MXG4 MXG3 MXG2 MXG1 MXG0 OCG
MXOB MXOA MXO9 MXO8 MXO7 MXO6 MXO5 MXO4 MXO3 MXO2 MXO1 MXO0 OCM
CHAR TITL EXT EXFR TRCK DCTL GCTL
HD VD FLOE TST1 TST0 MOD1 MOD0 RST
SADD SDAT CS CKD CKX CK
1207
1208
1209
1210
SIFM
Y19 Y18 Y17 Y16 Y15 Y14 Y13 Y12 Y11 Y10
C19 C18 C17 C16 C15 C14 C13 C12 C11 C10
Y29 Y28 Y27 Y26 Y25 Y24 Y23 Y22 Y21 Y20
C29 C28 C27 C26 C25 C24 C23 C22 C21 C20
P19 P18 P17 P16 P15 P14 P13 P12 P11 P10
P29 P28 P27 P26 P25 P24 P23 P22 P21 P20
CURS SMPL MPX CS OE RST ADR DIO CKD CKX CK

Chromakey Upgrade Board
CRK-11 (12/12)
BKDS-2032
BOARD NO. 1-654-681-11
LOT NO. 407-
FOR DVS-7000
B-¥SJX003-CRK11

BKDS-7161 (SY) : S/N 10001 and Higher


1
2
3
4
5
CN1
+5V
+3V
VI9 VI8 VI7 VI6 VI5 VI4 VI3 VI2 VI1 VI0
BB9 BB8 BB7 BB6 BB5 BB4 BB3 BB2 BB1 BB0
CFP
FLOE
HD
BLK
SMPL
CK
CKL
VIDL
BBDL
-5V
C1 100 6.3V
C2 100 6.3V
IC1 CXD8875AR
IC2 CXD8875AR
3V
C3 0.1
C4 0.1
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G CLR RST OE
VIDEO1
BB1
BLK
IC3 CXD8315AQ
5V
C5 0.1
I9 I8 I7 I6 I5 I4 I3 I2 I1 I0
B9 B8 B7 B6 B5 B4 B3 B2 B1 B0
O9 O8 O7 O6 O5 O4 O3 O2 O1 O0
D1D2 NTPAL HFCK CK SMPL RST CKX ADR DIO CKD CS
ADD DIO CKD CS1
VIDEO2
IC4 CXD8364Q
C6 0.1
D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
WCK RCFP RH RV RFLD SMPL RCK CKD SDAT SADD CS CKX RST
O9 O8 O7 O6 O5 O4 O3 O2 O1 O0
TRS VINV RPT1 RPT0 WCF1 WCF0 WFLD WV WH WPT1 WPT0
CF HD OE SMPL CKD DIO ADD CS2
VIDEO3
IC5 CX22029
C7 0.1
-5V
IC10 TC7S04F
IC6 CAT35C104K
EPCS SCK WD RD
CS CK WD RD Vcc CRG GND
A
B
C
D
E
F
G
H


IC7
CX20201A-1
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
CK
CK
OUT
INV
V-REF
-5V
R4 330
C24 47p
R3 150
FL1
IN OUT
GND
D1 1SS226
R2 100
R28 510
C25 10 16V
C11 0.1
GAIN
OFST
R6 10
C13 0.1
C26 10 16V
Q1 2SC1623
Q2 2SC1623
R7 100
R8 1.5k
R9 100
R26 470
R27 470
R1 200
C8 0.1
L1 10μH
C9 0.1
C10 100 6.3V
CKE
CKEI
5V
L2 10μH
C12 100 6.3V
C14 1
R5 150
IC8
LT1191CS8
R10 1k
R11 470
R12 330
C18 10p
R13 10k
C19 9p
C15 1
C16 1
IC9
LT1227CS8
R16 75
R17 75
R14 1.3k
R15 1k
C17 1
C22 1
C20 1
IC11
LT1227CS8
R24 75
R25 75
R22 1.3k
R23 1k
C23 1
C21 1
CN2
GND 1
GND 2
GND 3
GND 4
OUT4 5
GND 6
GND 7
GND 8
OUT3 9
GND 10
GND 11
GND 12
OUT2 13
GND 14
GND 15
GND 16
OUT1 17
GND 18
GND 19
TST 20
FMT 21
N.C. 22
F/L 23
ADJ1 24
ADJ2 25
PLLM 26
PCK 27
CKE 28
CKEI 29
RD 30
WD 31
EPCS 32
SCK 33
DIO 34
CKD 35
ADD 36
RST 37
CKX 38
CS1 39
CS2 40

Analog Composite Output Board
DA-94
BKDS-7161
BOARD NO. 1-658-407-11
LOT NO. 506-
FOR DVS-7000/DMK-7000
B-¥SJX050-DA94

BKDS-7430 (SY) : S/N 10001 and Higher

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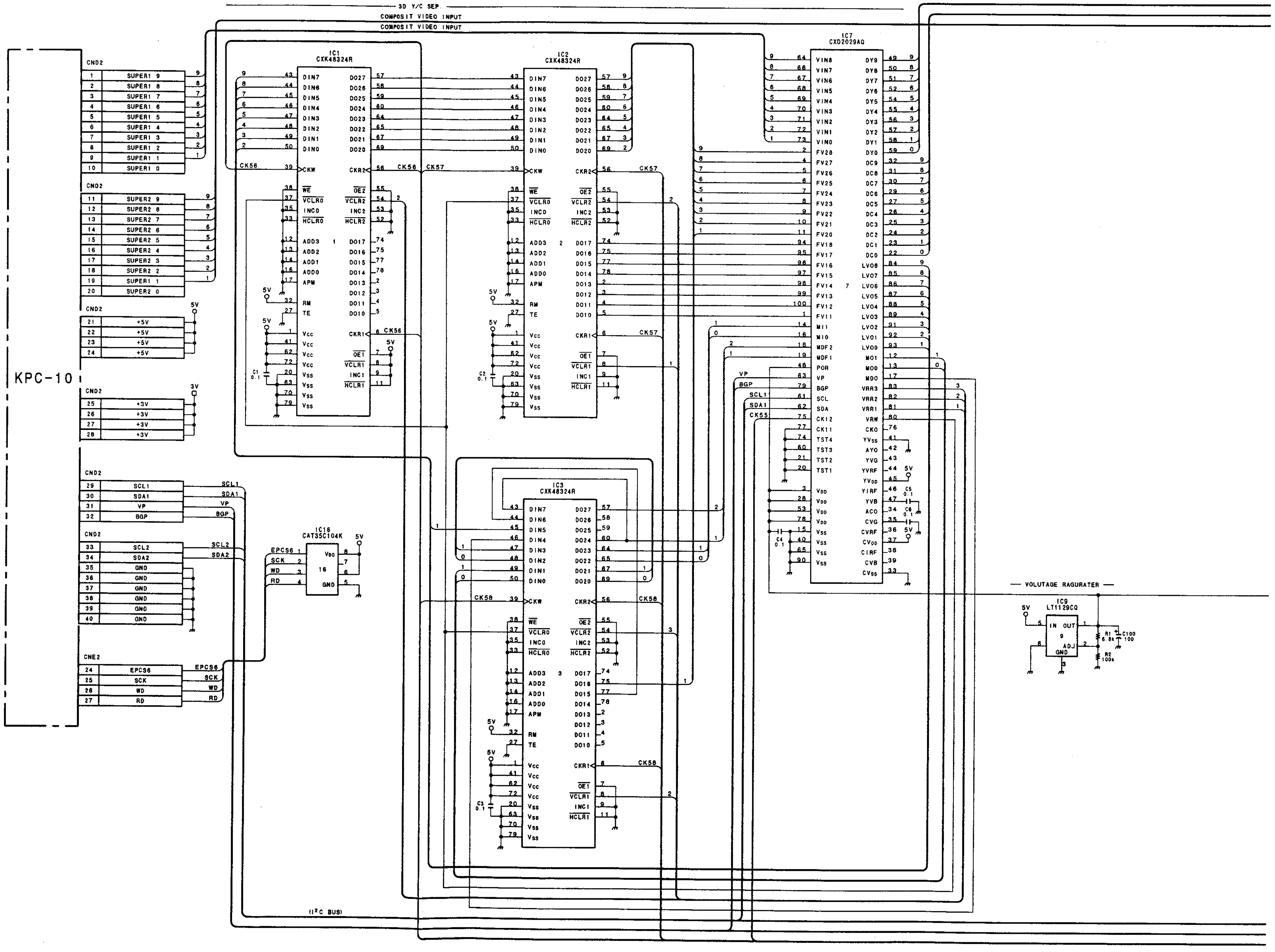
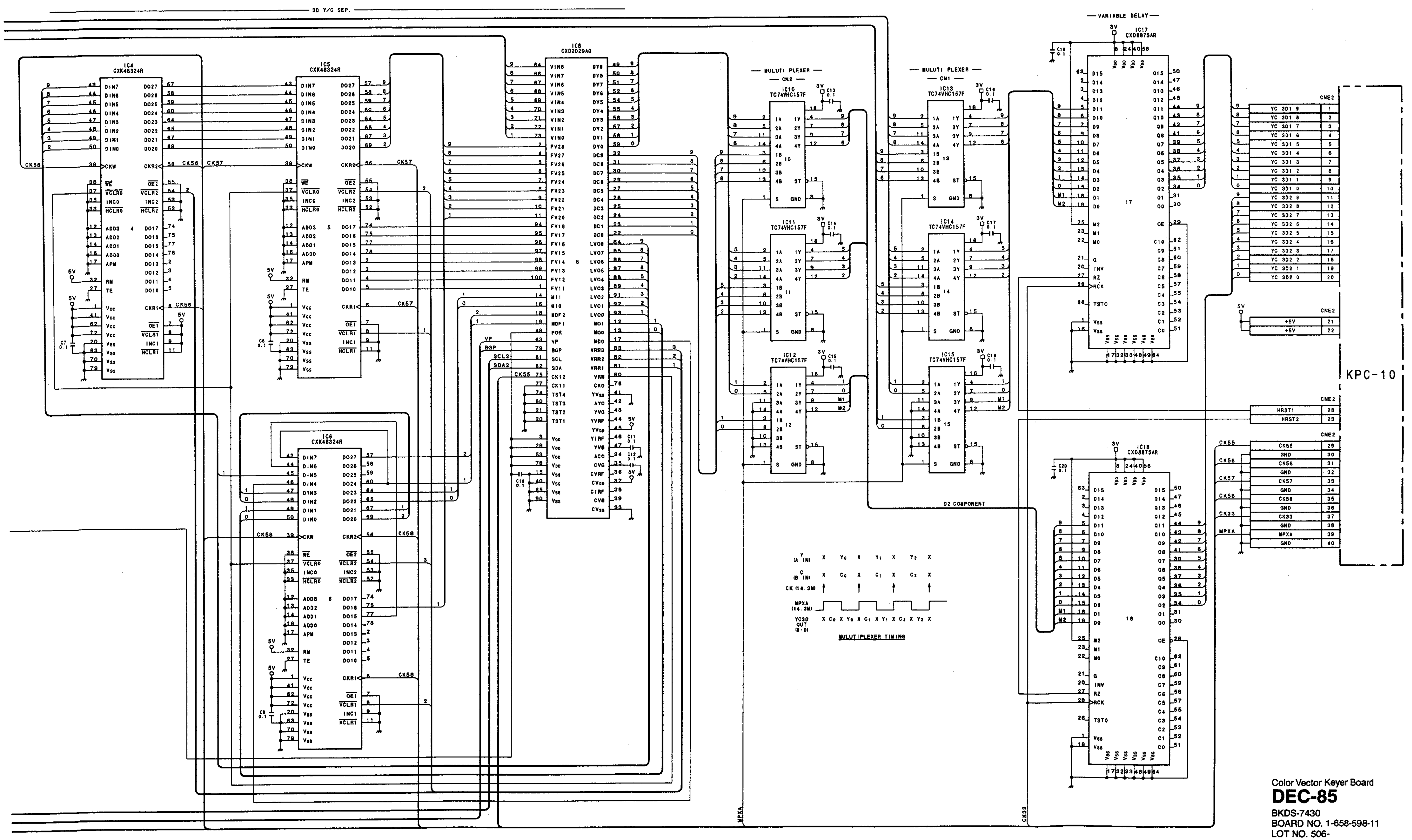
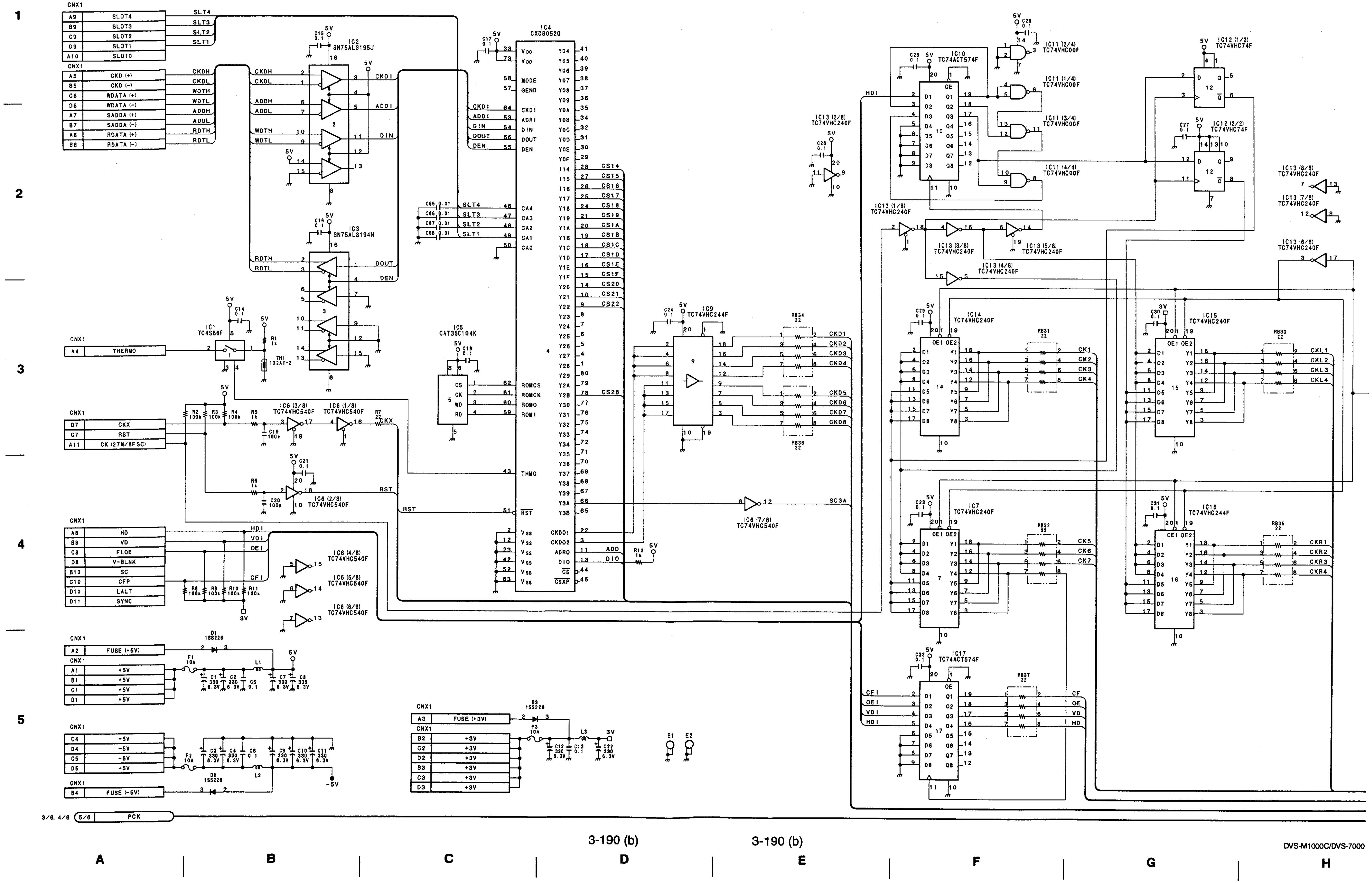

3D Y/C SEP
COMPOSIT VIDEO INPUT
COMPOSIT VIDEO INPUT
KPC-10
CND2
CNE2
SUPER1 9
SUPER2 9
+5V
+3V
SCL1
SDA1
VP
BGP
SCL2
SDA2
GND
EPCS6
SCK
WD
RD
IC1 CXK48324R
IC2 CXK48324R
IC3 CXK48324R
IC7 CXD2029AQ
IC16 CAT35C104K
IC9 LT1129CQ
VOLUTAGE RAGURATER
CK56
CK57
CK58
CK55
(I²C BUS)
5V
3V

A B C D E F G H

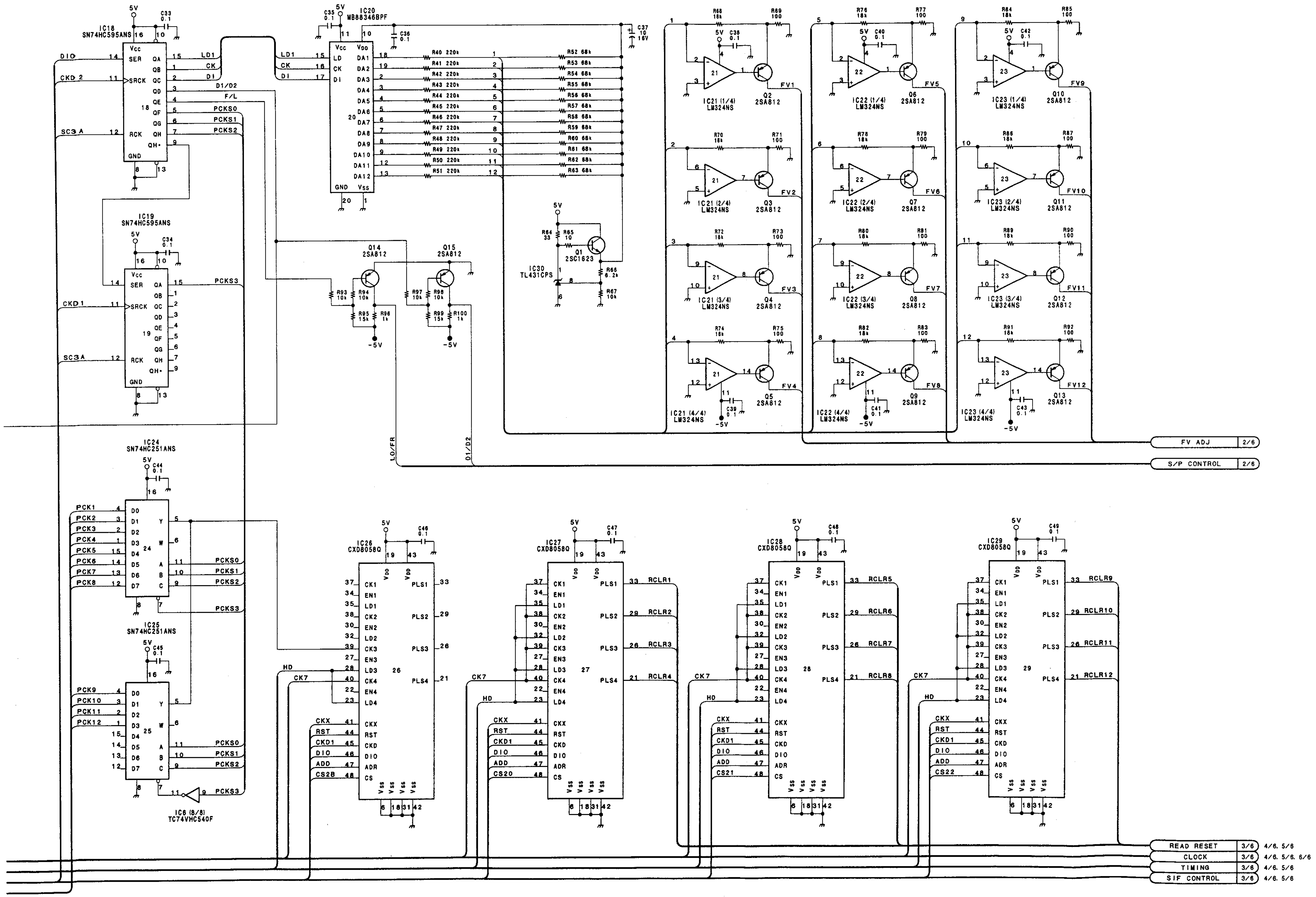

3D Y/C SEP.
IC4 CXK48324R
IC5 CXK48324R
IC6 CXK48324R
IC8 CXD2029AQ
MULUTI PLEXER — CN2 —
IC10 TC74VHC157F
IC11 TC74VHC157F
IC12 TC74VHC157F
MULUTI PLEXER — CN1 —
IC13 TC74VHC157F
IC14 TC74VHC157F
IC15 TC74VHC157F
VARIABLE DELAY
IC17 CXD8875AR
IC18 CXD8875AR
D2 COMPONENT
CK55
CK56
CK57
CK58
CK33
MPXA
VP
BGP
SCL2
SDA2
5V
3V
Y (A IN) X Y0 X Y1 X Y2 X
C (B IN) X C0 X C1 X C2 X
CK (14.3M)
MPXA (14.3M)
YC3D OUT (B:0) X C0 X Y0 X C1 X Y1 X C2 X Y2 X
MULUTIPLEXER TIMING
CNE2
YC 3D1 9
YC 3D1 8
YC 3D1 7
YC 3D1 6
YC 3D1 5
YC 3D1 4
YC 3D1 3
YC 3D1 2
YC 3D1 1
YC 3D1 0
YC 3D2 9
YC 3D2 8
YC 3D2 7
YC 3D2 6
YC 3D2 5
YC 3D2 4
YC 3D2 3
YC 3D2 2
YC 3D2 1
YC 3D2 0
+5V
HRST1
HRST2
GND
MPXA
KPC-10
1
2
3
4
5

Color Vector Keyer Board
DEC-85
BKDS-7430
BOARD NO. 1-658-598-11
LOT NO. 506-
FOR DMK-7000
B-¥SJX054-DEC85

BKDS-7102 (SY) : S/N 10251 and Higher

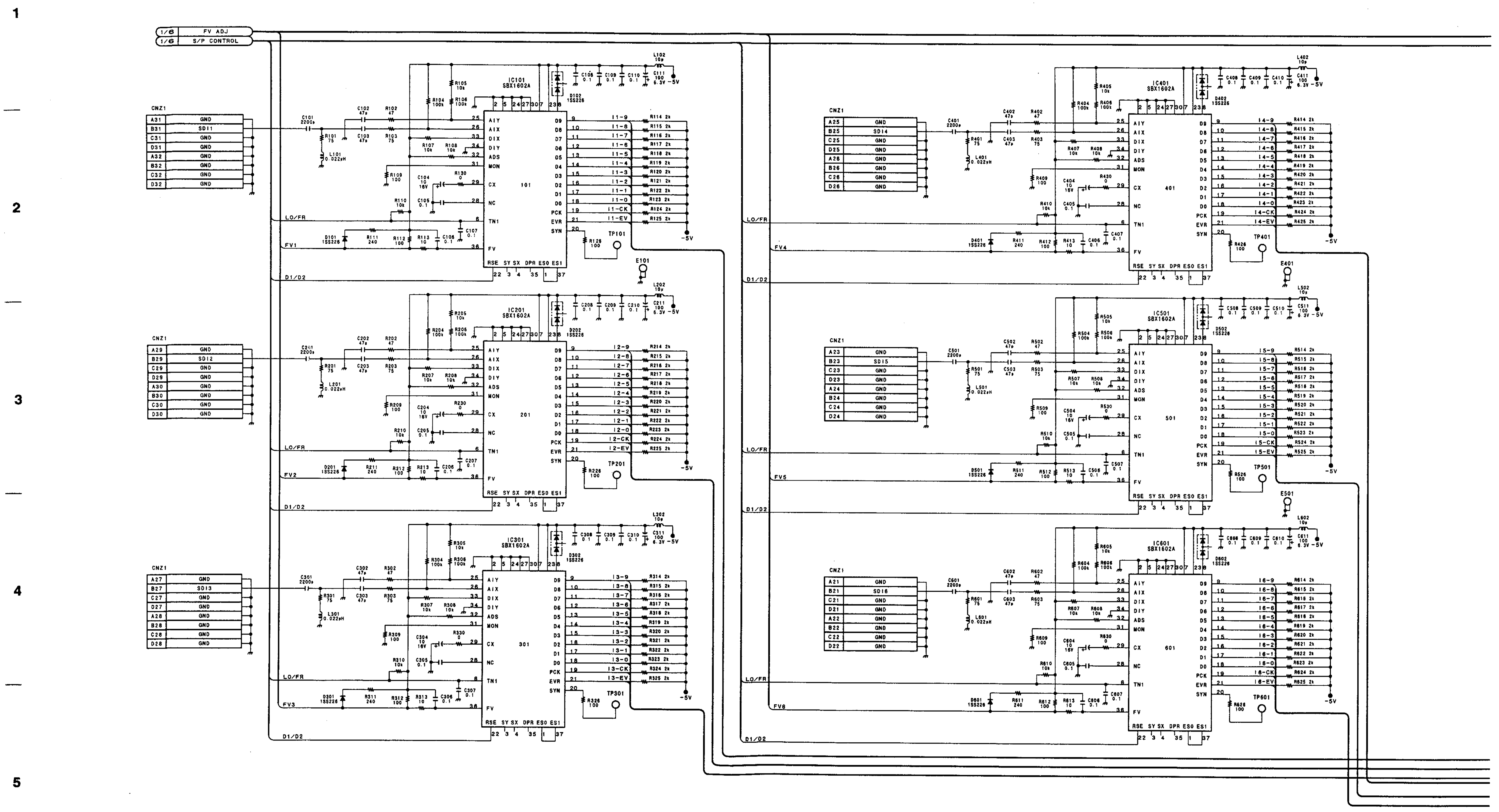


CNX1
SLOT4
SLOT3
SLOT2
SLOT1
SLOT0
CKD (+)
CKD (-)
WDATA (+)
WDATA (-)
SADDA (+)
SADDA (-)
RDATA (+)
RDATA (-)
IC2 SN75ALS195J
IC3 SN75ALS194N
IC4 CXD80520
IC1 TC4S66F
THERMO
TH1 102AT-2
CKX
RST
CK (27M/8FSC)
IC6 TC74VHC540F
IC5 CAT35C104K
HD
VD
FLOE
V-BLNK
SC
CFP
LALT
SYNC
FUSE (+5V)
+5V
-5V
FUSE (-5V)
FUSE (+3V)
+3V
D1 1SS226
D2 1SS226
D3 1SS226
IC9 TC74VHC244F
IC10 TC74ACT574F
IC11 TC74VHC00F
IC12 TC74VHC74F
IC13 TC74VHC240F
IC14 TC74VHC240F
IC15 TC74VHC240F
IC7 TC74VHC240F
IC16 TC74VHC244F
IC17 TC74ACT574F
CKD1
CKD2
CKD3
CKD4
CKD5
CKD6
CKD7
CKD8
CK1
CK2
CK3
CK4
CK5
CK6
CK7
CKL1
CKL2
CKL3
CKL4
CKR1
CKR2
CKR3
CKR4
SC3A
CF
OE
VD
HD
E1
E2
3/6, 4/6
5/6
PCK
1
2
3
4
5
A
B
C
D
E
F
G
H

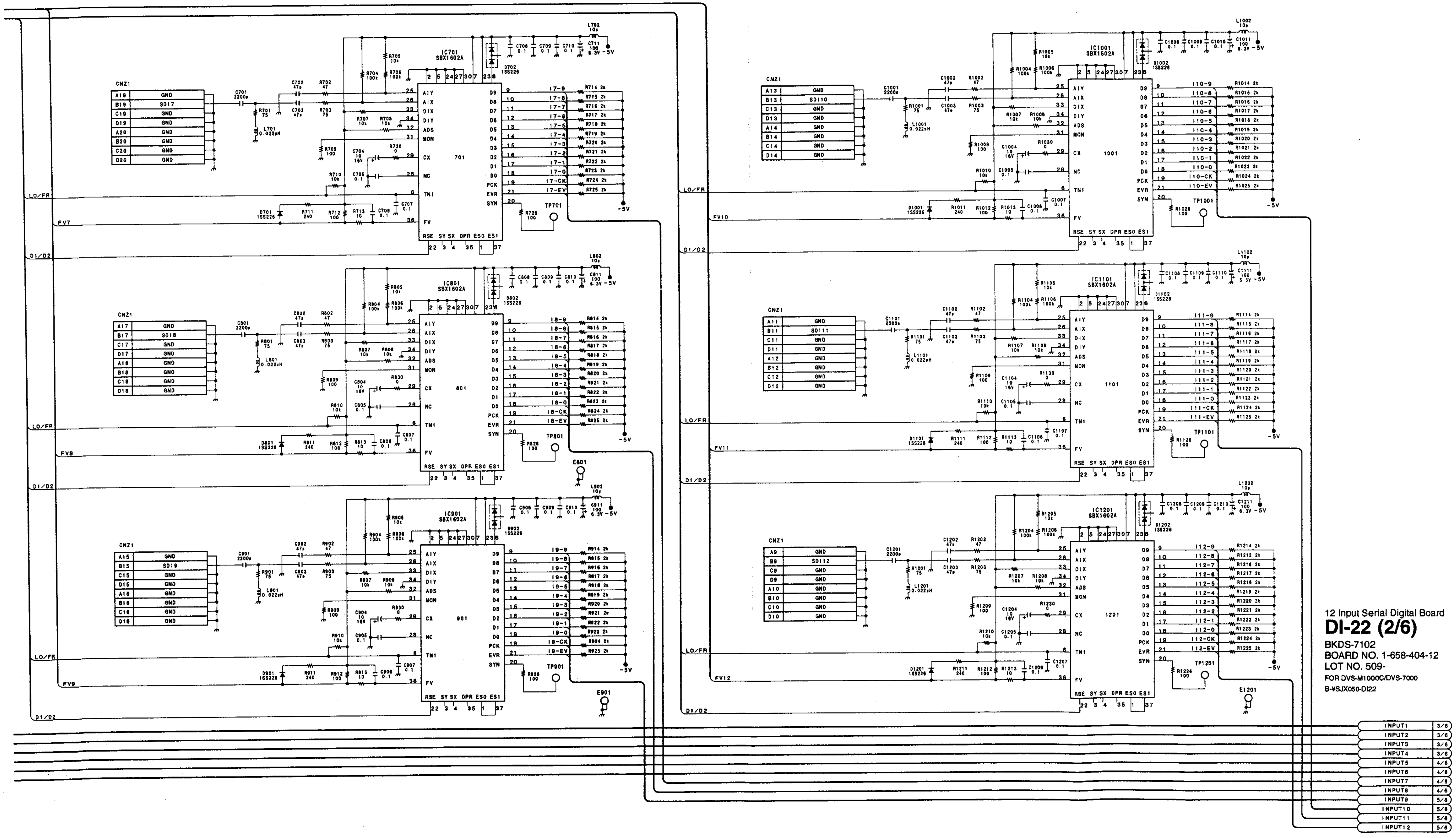

IC18 SN74HC595ANS
IC19 SN74HC595ANS
IC20 MB88346BPF
IC24 SN74HC251ANS
IC25 SN74HC251ANS
IC6 (8/8) TC74VHC540F
IC21 LM324NS
IC22 LM324NS
IC23 LM324NS
IC30 TL431CPS
Q1 2SC1623
Q14 2SA812
Q15 2SA812
IC26 CXD8058Q
IC27 CXD8058Q
IC28 CXD8058Q
IC29 CXD8058Q
DIO
CKD 2
SC3 A
CKD 1
PCK1
PCK2
PCK3
PCK4
PCK5
PCK6
PCK7
PCK8
PCK9
PCK10
PCK11
PCK12
PCKS0
PCKS1
PCKS2
PCKS3
LD1
CK
DI
D1/D2
F/L
L0/FR
HD
CK7
CKX
RST
CKD1
DIO
ADD
CS28
CS20
CS21
CS22
FV1
FV2
FV3
FV4
FV5
FV6
FV7
FV8
FV9
FV10
FV11
FV12
RCLR1
RCLR2
RCLR3
RCLR4
RCLR5
RCLR6
RCLR7
RCLR8
RCLR9
RCLR10
RCLR11
RCLR12
FV ADJ 2/6
S/P CONTROL 2/6
READ RESET 3/6 4/6, 5/6
CLOCK 3/6 4/6, 5/6, 6/6
TIMING 3/6 4/6, 5/6
SIF CONTROL 3/6 4/6, 5/6
5V
-5V
1
2
3
4
5

12 Input Serial Digital Board
DI-22 (1/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

BKDS-7102 (SY) : S/N 10251 and Higher

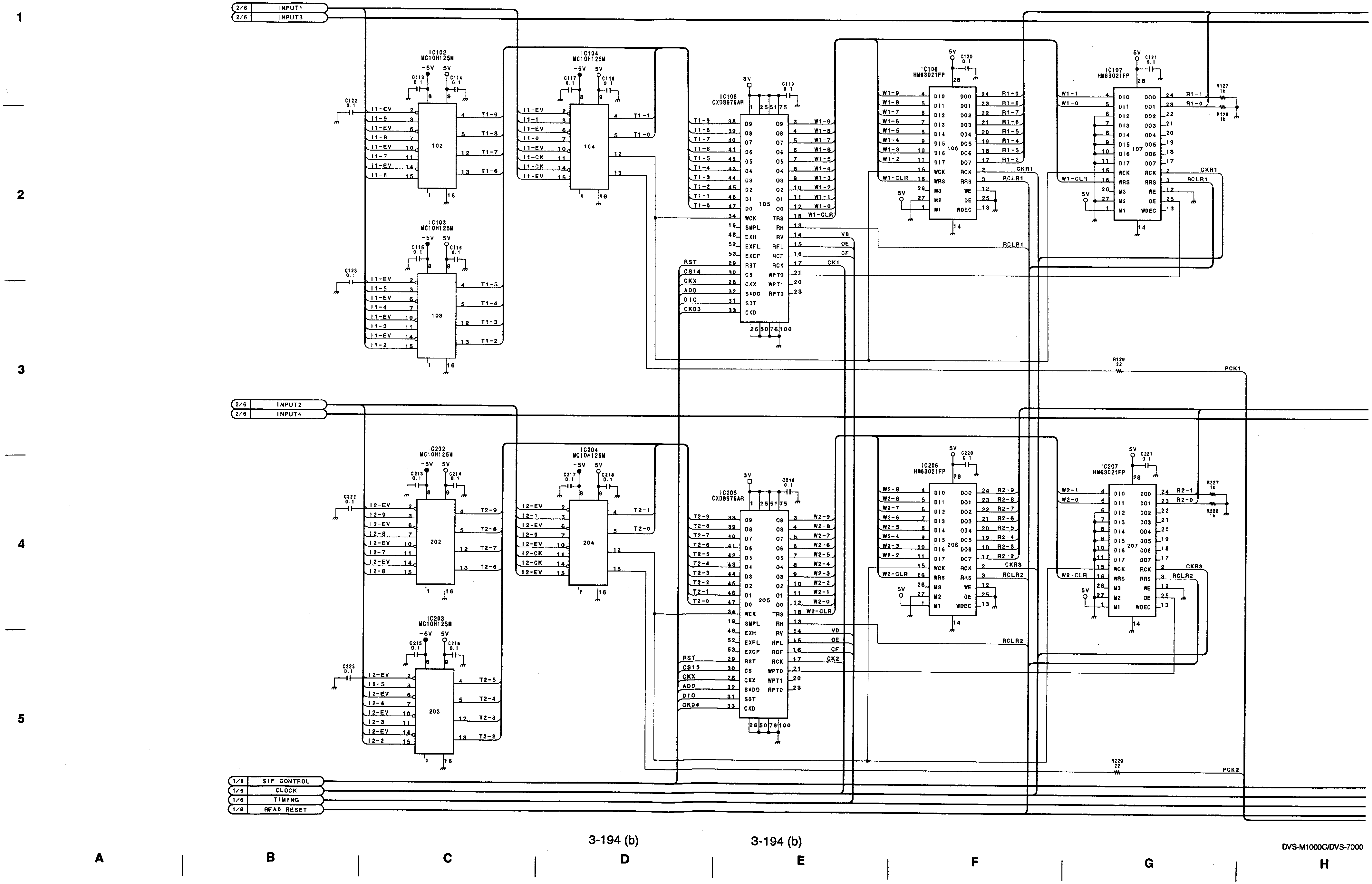

1
2
3
4
5
1/6 FV ADJ
1/6 S/P CONTROL
CNZ1
A31 GND
B31 SDI1
C31 GND
D31 GND
A32 GND
B32 GND
C32 GND
D32 GND
A29 GND
B29 SDI2
C29 GND
D29 GND
A30 GND
B30 GND
C30 GND
D30 GND
A27 GND
B27 SDI3
C27 GND
D27 GND
A28 GND
B28 GND
C28 GND
D28 GND
A25 GND
B25 SDI4
C25 GND
D25 GND
A26 GND
B26 GND
C26 GND
D26 GND
A23 GND
B23 SDI5
C23 GND
D23 GND
A24 GND
B24 GND
C24 GND
D24 GND
A21 GND
B21 SDI6
C21 GND
D21 GND
A22 GND
B22 GND
C22 GND
D22 GND
IC101 SBX1602A
IC201 SBX1602A
IC301 SBX1602A
IC401 SBX1602A
IC501 SBX1602A
IC601 SBX1602A
AIY
AIX
DIX
DIY
ADS
MON
CX
NC
TN1
FV
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
PCK
EVR
SYN
RSE SY SX DPR ES0 ES1
LO/FR
FV1
FV2
FV3
FV4
FV5
FV6
D1/D2
I1-9
I1-8
I1-7
I1-6
I1-5
I1-4
I1-3
I1-2
I1-1
I1-0
I1-CK
I1-EV
I2-9
I2-CK
I2-EV
I3-9
I3-CK
I3-EV
I4-9
I4-CK
I4-EV
I5-9
I5-CK
I5-EV
I6-9
I6-CK
I6-EV
TP101
TP201
TP301
TP401
TP501
TP601
E101
E401
E501
D101 1SS226
D102 1SS226
L101 0.022μH
L102 10μ
C111 100 6.3V
-5V

A
B
C
D
E
F
G
H


IC701
SBX1602A
IC801
SBX1602A
IC901
SBX1602A
IC1001
SBX1602A
IC1101
SBX1602A
IC1201
SBX1602A
CNZ1
A19 GND
B19 SDI7
C19 GND
D19 GND
A20 GND
B20 GND
C20 GND
D20 GND
A17 GND
B17 SDI8
C17 GND
D17 GND
A18 GND
B18 GND
C18 GND
D18 GND
A15 GND
B15 SDI9
C15 GND
D15 GND
A16 GND
B16 GND
C16 GND
D16 GND
A13 GND
B13 SDI10
C13 GND
D13 GND
A14 GND
B14 GND
C14 GND
D14 GND
A11 GND
B11 SDI11
C11 GND
D11 GND
A12 GND
B12 GND
C12 GND
D12 GND
A9 GND
B9 SDI12
C9 GND
D9 GND
A10 GND
B10 GND
C10 GND
D10 GND
AIY
AIX
DIX
DIY
ADS
MON
CX
NC
TN1
FV
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
PCK
EVR
SYN
RSE SY SX DPR ESO ES1
LO/FR
D1/D2
FV7
FV8
FV9
FV10
FV11
FV12
TP701
TP801
TP901
TP1001
TP1101
TP1201
E801
E901
E1201
-5V
I7-9
I7-CK
I7-EV
I8-CK
I8-EV
I9-CK
I9-EV
I10-CK
I10-EV
I11-CK
I11-EV
I12-CK
I12-EV
INPUT1 3/6
INPUT2 3/6
INPUT3 3/6
INPUT4 3/6
INPUT5 4/6
INPUT6 4/6
INPUT7 4/6
INPUT8 4/6
INPUT9 5/6
INPUT10 5/6
INPUT11 5/6
INPUT12 5/6

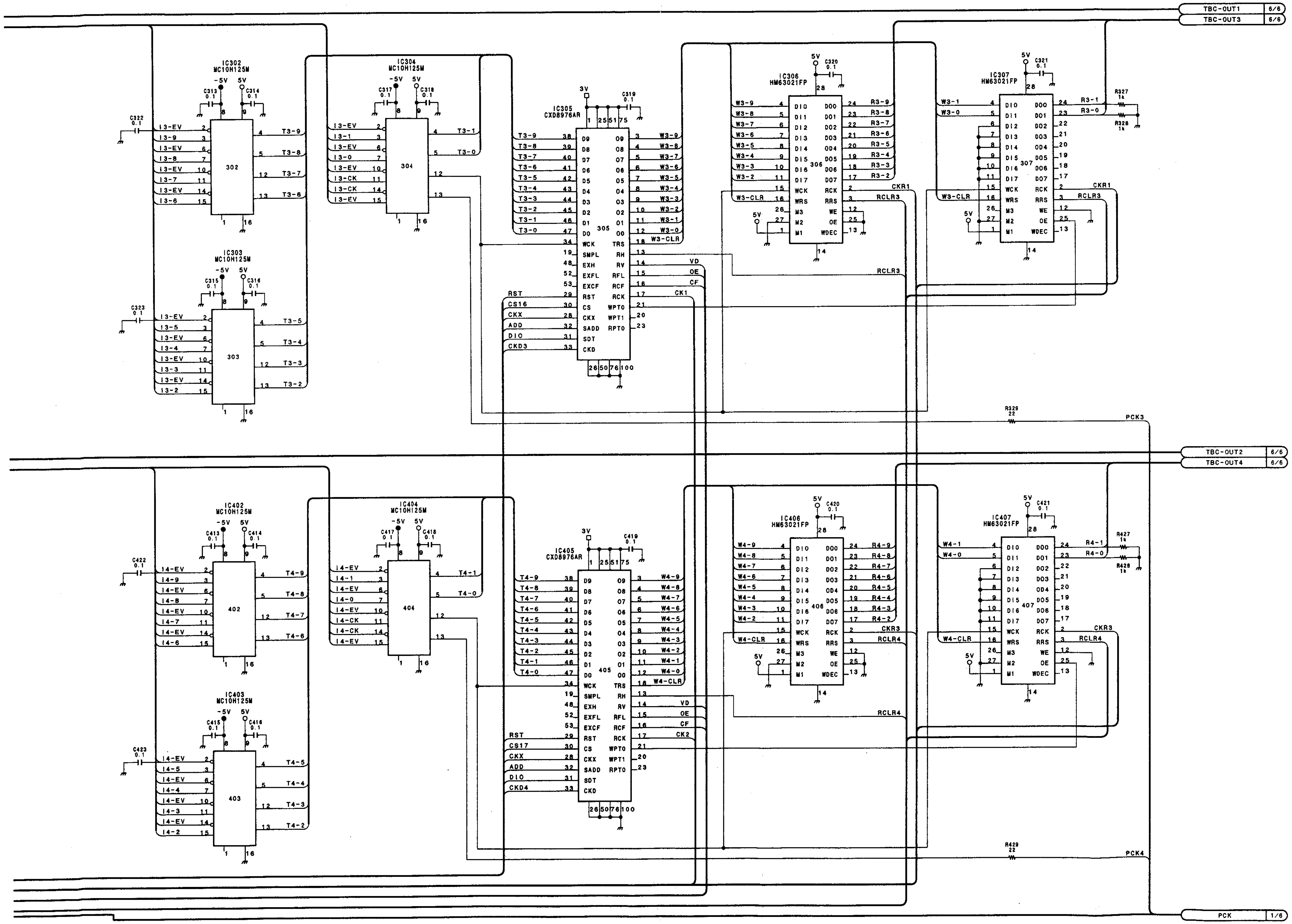
12 Input Serial Digital Board
DI-22 (2/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

BKDS-7102 (SY) : S/N 10251 and Higher



2/6 INPUT1
2/6 INPUT3
2/6 INPUT2
2/6 INPUT4
IC102 MC10H125M
IC103 MC10H125M
IC104 MC10H125M
IC105 CXD8976AR
IC106 HM63021FP
IC107 HM63021FP
IC202 MC10H125M
IC203 MC10H125M
IC204 MC10H125M
IC205 CXD8976AR
IC206 HM63021FP
IC207 HM63021FP
R127 1k
R128 1k
R129 22
R227 1k
R228 1k
R229 22
PCK1
PCK2
CKR1
CKR3
RCLR1
RCLR2
CK1
CK2
VD
OE
CF
RST
CS14
CS15
CKX
ADD
DIO
CKD3
CKD4
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET
1
2
3
4
5
A
B
C
D
E
F
G
H

DI-22 (3/6) 12 Input Serial Digital Board

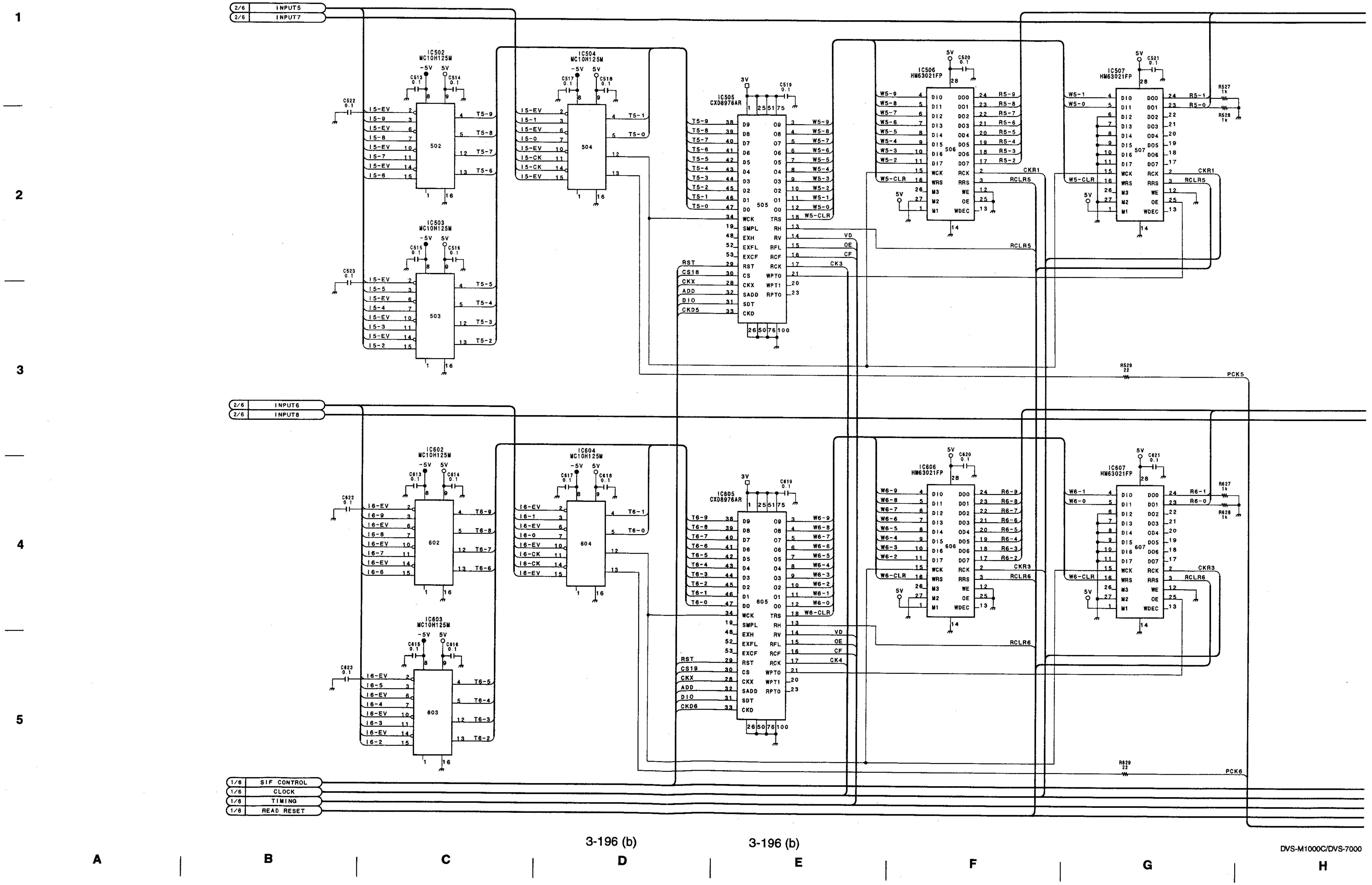

IC302 MC10H125M
IC303 MC10H125M
IC304 MC10H125M
IC305 CXD8976AR
IC306 HM63021FP
IC307 HM63021FP
IC402 MC10H125M
IC403 MC10H125M
IC404 MC10H125M
IC405 CXD8976AR
IC406 HM63021FP
IC407 HM63021FP
TBC-OUT1 6/6
TBC-OUT3 6/6
TBC-OUT2 6/6
TBC-OUT4 6/6
PCK 1/6
PCK3
PCK4
R329 22
R429 22
R327 1k
R328 1k
R427 1k
R428 1k
RCLR3
RCLR4
CKR1
CKR3
VD
OE
CF
CK1
CK2
RST
CS16
CS17
CKX
ADD
DIO
CKD3
CKD4
-5V
5V
3V

1
2
3
4
5

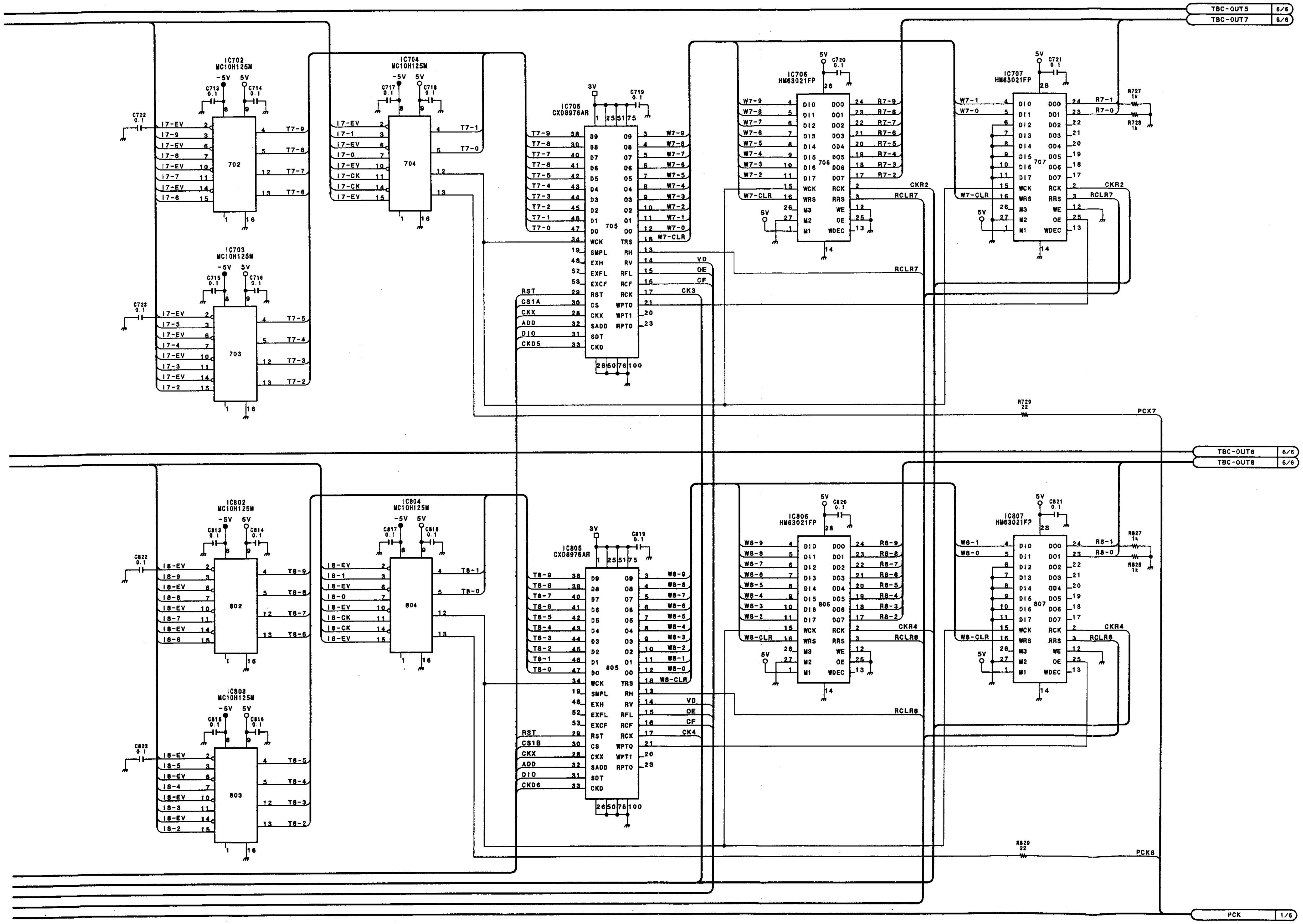
12 Input Serial Digital Board
DI-22 (3/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

DI-22 (4/6) 12 Input Serial Digital Board

BKDS-7102 (SY) : S/N 10251 and Higher

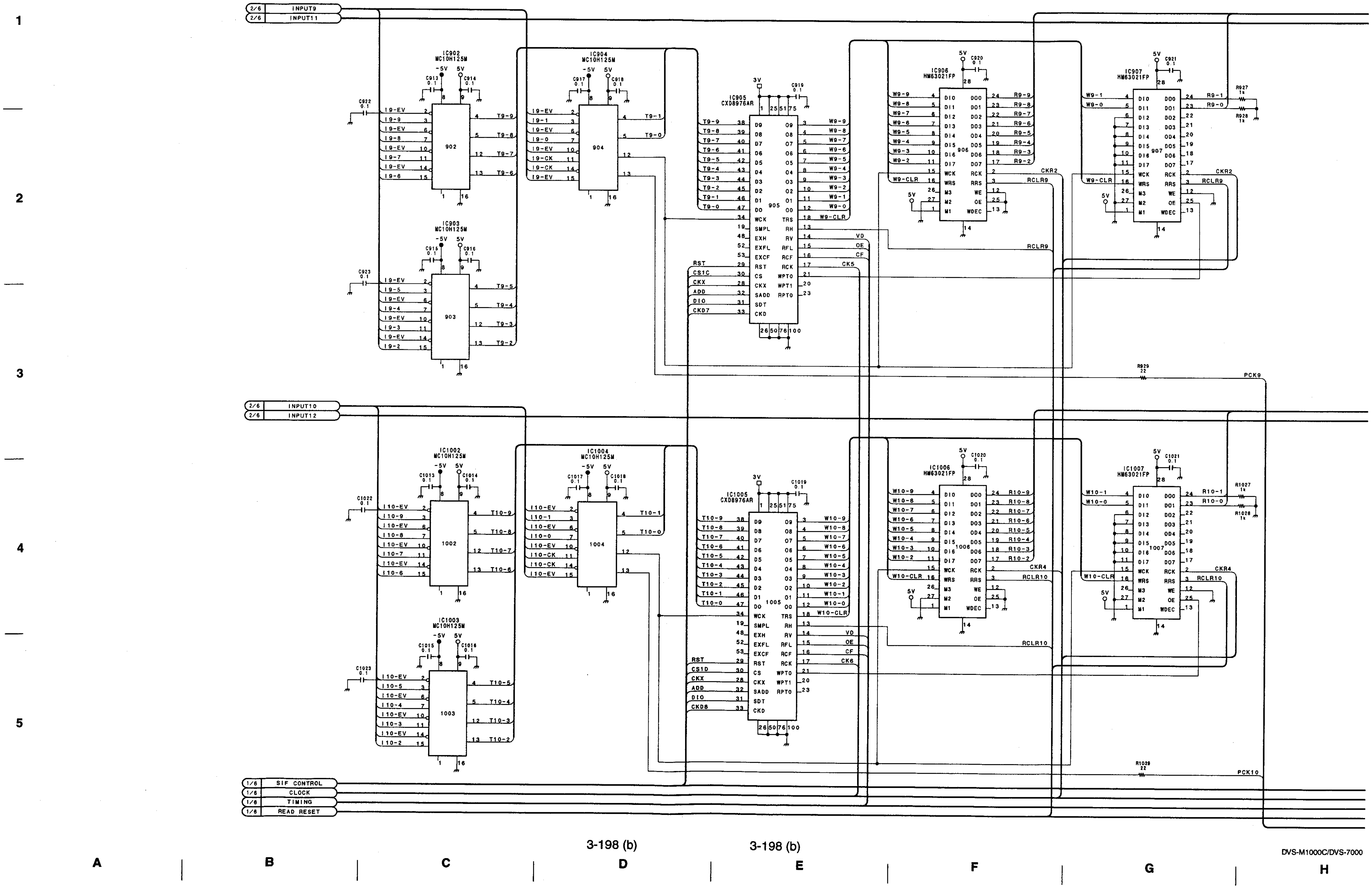

1
2
3
4
5
A
B
C
D
E
F
G
H
2/6 INPUT5
2/6 INPUT7
2/6 INPUT6
2/6 INPUT8
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET
IC502 MC10H125M
IC503 MC10H125M
IC504 MC10H125M
IC505 CXD8976AR
IC506 HM63021FP
IC507 HM63021FP
IC602 MC10H125M
IC603 MC10H125M
IC604 MC10H125M
IC605 CXD8976AR
IC606 HM63021FP
IC607 HM63021FP
-5V
5V
3V
C513 0.1
C514 0.1
C515 0.1
C516 0.1
C517 0.1
C518 0.1
C519 0.1
C520 0.1
C521 0.1
C522 0.1
C523 0.1
C613 0.1
C614 0.1
C615 0.1
C616 0.1
C617 0.1
C618 0.1
C619 0.1
C620 0.1
C621 0.1
C622 0.1
C623 0.1
R527 1k
R528 1k
R529 22
R627 1k
R628 1k
R629 22
I5-EV
I6-EV
I5-CK
I6-CK
T5-9
T5-0
T6-9
T6-0
W5-9
W5-0
W5-CLR
W6-9
W6-0
W6-CLR
R5-9
R5-0
R6-9
R6-0
WCK
SMPL
EXH
EXFL
EXCF
RST
CS
CKX
SADD
SDT
CKD
TRS
RH
RV
RFL
RCF
RCK
WPT0
WPT1
RPT0
CS18
CS19
ADD
DIO
CKD5
CKD6
VD
OE
CF
CK3
CK4
CKR1
CKR3
RCLR5
RCLR6
PCK5
PCK6
WRS
RRS
WE
WDEC
M1
M2
M3

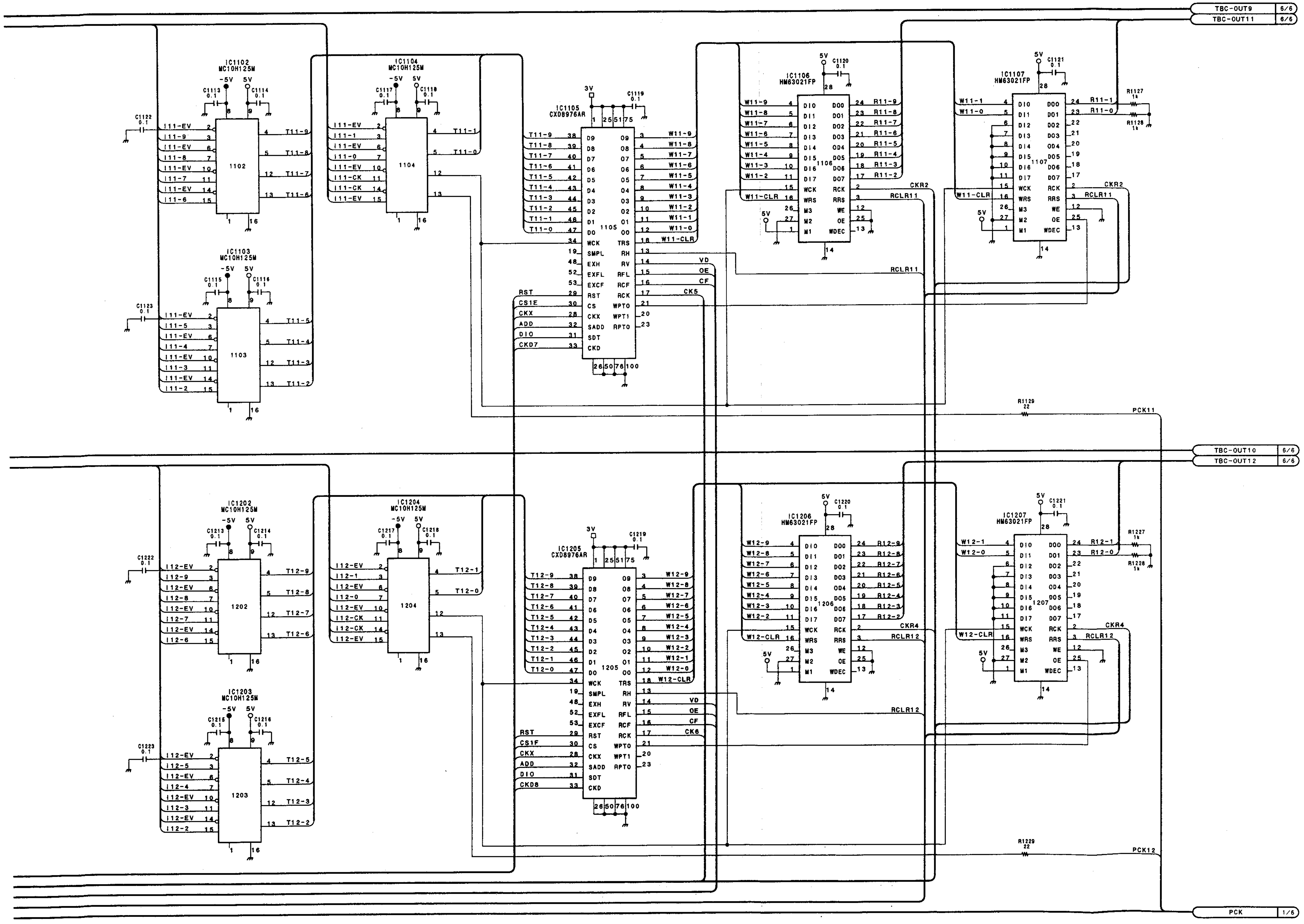
3-196 (b)


TBC-OUT5 6/6
TBC-OUT7 6/6
IC702 MC10H125M
IC703 MC10H125M
IC704 MC10H125M
IC705 CXD8976AR
IC706 HM63021FP
IC707 HM63021FP
TBC-OUT6 6/6
TBC-OUT8 6/6
IC802 MC10H125M
IC803 MC10H125M
IC804 MC10H125M
IC805 CXD8976AR
IC806 HM63021FP
IC807 HM63021FP
R729 22
PCK7
R829 22
PCK8
PCK 1/6
CKR2
RCLR7
CKR4
RCLR8
VD
OE
CF
CK3
CK4
RST
CS1A
CS1B
CKX
ADD
DIO
CKD5
CKD6
-5V
5V
3V
1
2
3
4
5

12 Input Serial Digital Board
DI-22 (4/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

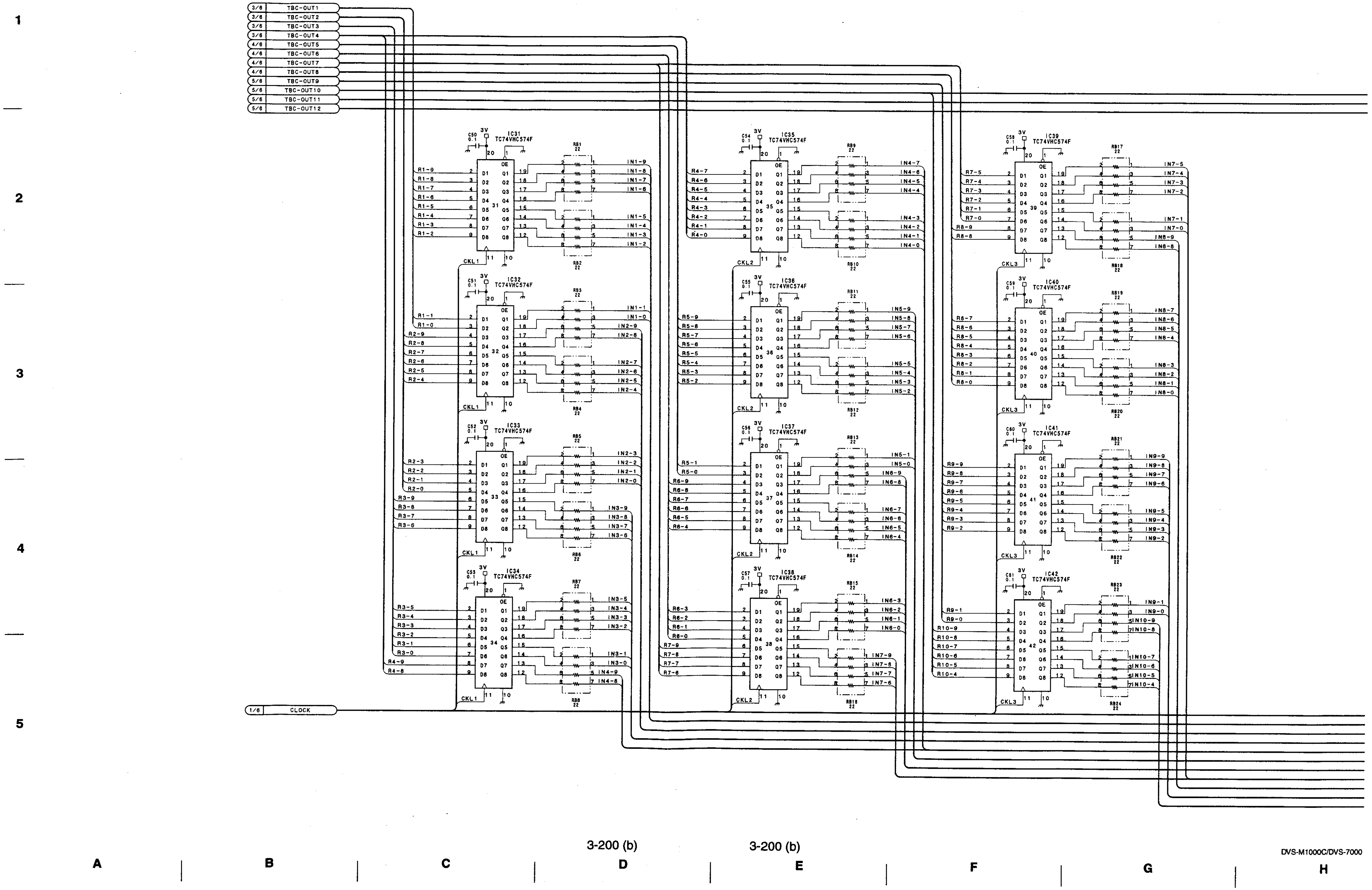
BKDS-7102 (SY) : S/N 10251 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
2/6 INPUT9
2/6 INPUT11
2/6 INPUT10
2/6 INPUT12
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET
IC902 MC10H125M
IC903 MC10H125M
IC904 MC10H125M
IC905 CXD8976AR
IC906 HM63021FP
IC907 HM63021FP
IC1002 MC10H125M
IC1003 MC10H125M
IC1004 MC10H125M
IC1005 CXD8976AR
IC1006 HM63021FP
IC1007 HM63021FP
VD
OE
CF
CK5
CK6
CKR2
CKR4
RCLR9
RCLR10
R929 22
R1029 22
PCK9
PCK10

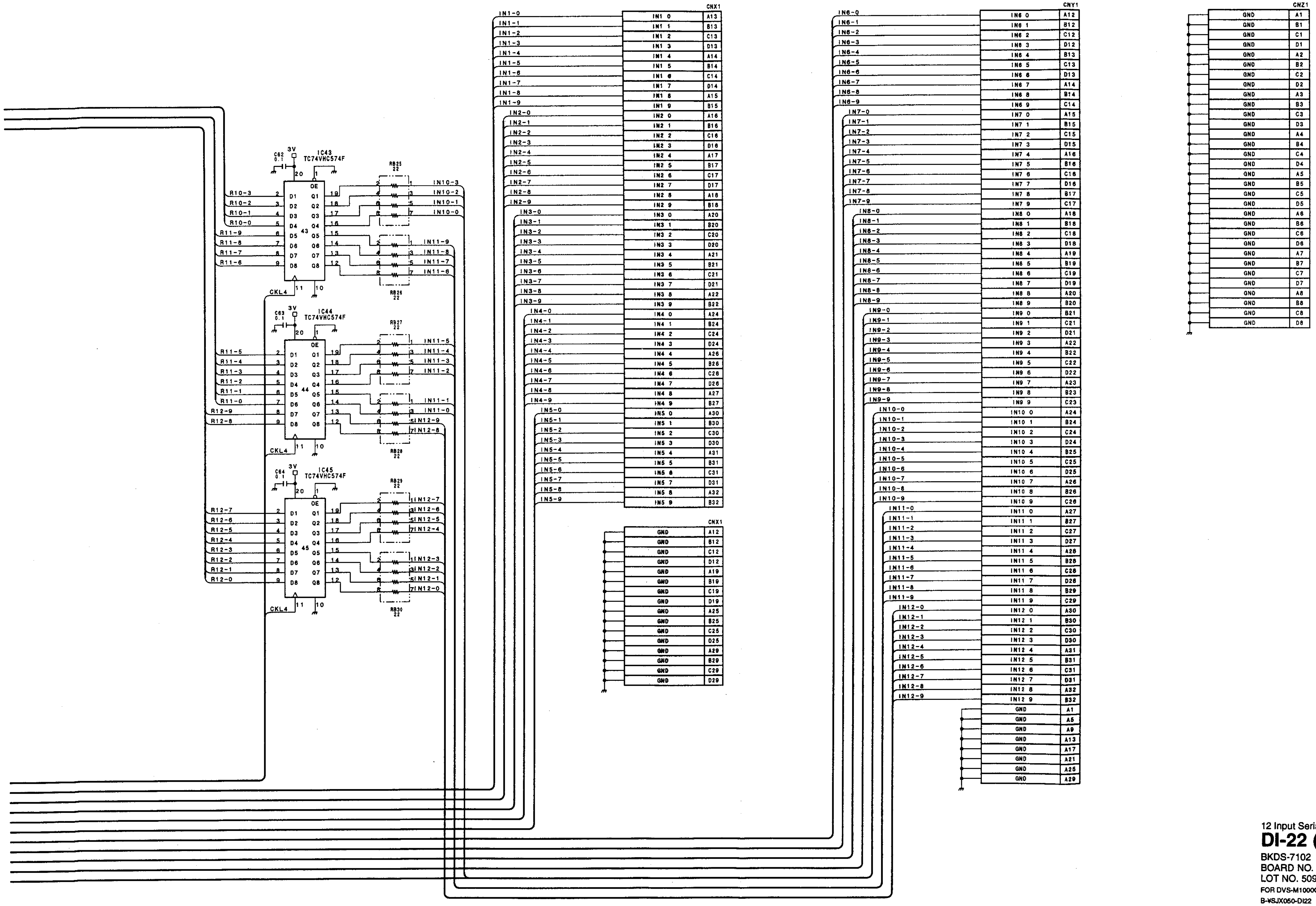

TBC-OUT9 5/6
TBC-OUT11 6/6
TBC-OUT10 6/6
TBC-OUT12 6/6
PCK 1/6
IC1102 MC10H125M
IC1103 MC10H125M
IC1104 MC10H125M
IC1105 CXD8976AR
IC1106 HM63021FP
IC1107 HM63021FP
IC1202 MC10H125M
IC1203 MC10H125M
IC1204 MC10H125M
IC1205 CXD8976AR
IC1206 HM63021FP
IC1207 HM63021FP
R1129 22
PCK11
R1229 22
PCK12
R1127 1k
R1128 1k
R1227 1k
R1228 1k
CKR2
RCLR11
CKR4
RCLR12
W11-CLR
W12-CLR
RST
CS1E
CS1F
CKX
ADD
DIO
CKD7
CKD8
VD
OE
CF
CK5
CK6
3V
5V
-5V
1
2
3
4
5
I
J
K
L
M
N
O
P

12 Input Serial Digital Board
DI-22 (5/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

BKDS-7102 (SY) : S/N 10251 and Higher


1
2
3
4
5
3/6 TBC-OUT1
3/6 TBC-OUT2
3/6 TBC-OUT3
3/6 TBC-OUT4
4/6 TBC-OUT5
4/6 TBC-OUT6
4/6 TBC-OUT7
4/6 TBC-OUT8
5/6 TBC-OUT9
5/6 TBC-OUT10
5/6 TBC-OUT11
5/6 TBC-OUT12
1/6 CLOCK
IC31 TC74VHC574F
IC32 TC74VHC574F
IC33 TC74VHC574F
IC34 TC74VHC574F
IC35 TC74VHC574F
IC36 TC74VHC574F
IC37 TC74VHC574F
IC38 TC74VHC574F
IC39 TC74VHC574F
IC40 TC74VHC574F
IC41 TC74VHC574F
IC42 TC74VHC574F
3V
CKL1
CKL2
CKL3
OE
D1 D2 D3 D4 D5 D6 D7 D8
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8
A
B
C
D
E
F
G
H

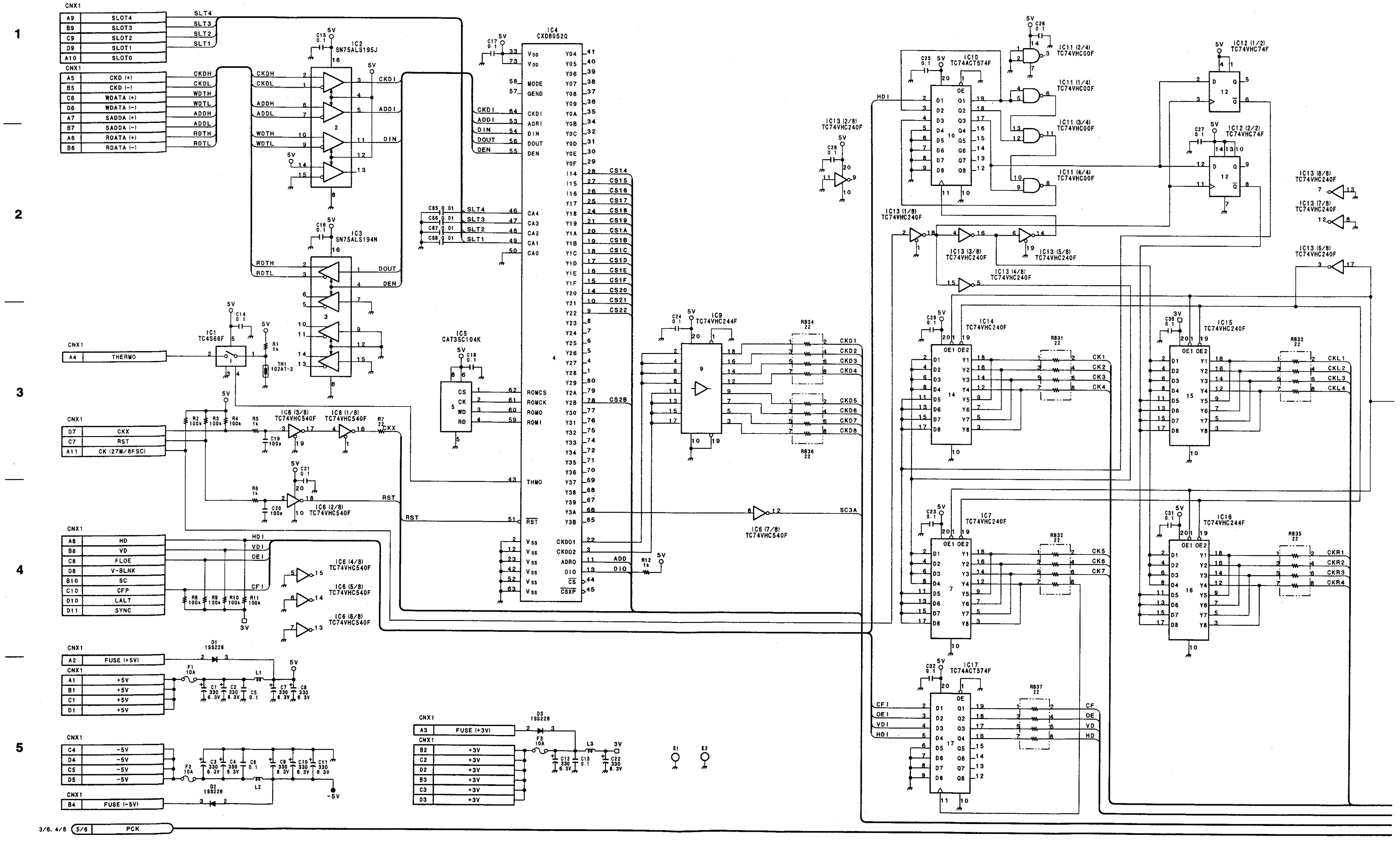
DI-22 (6/6) 12 Input Serial Digital Board

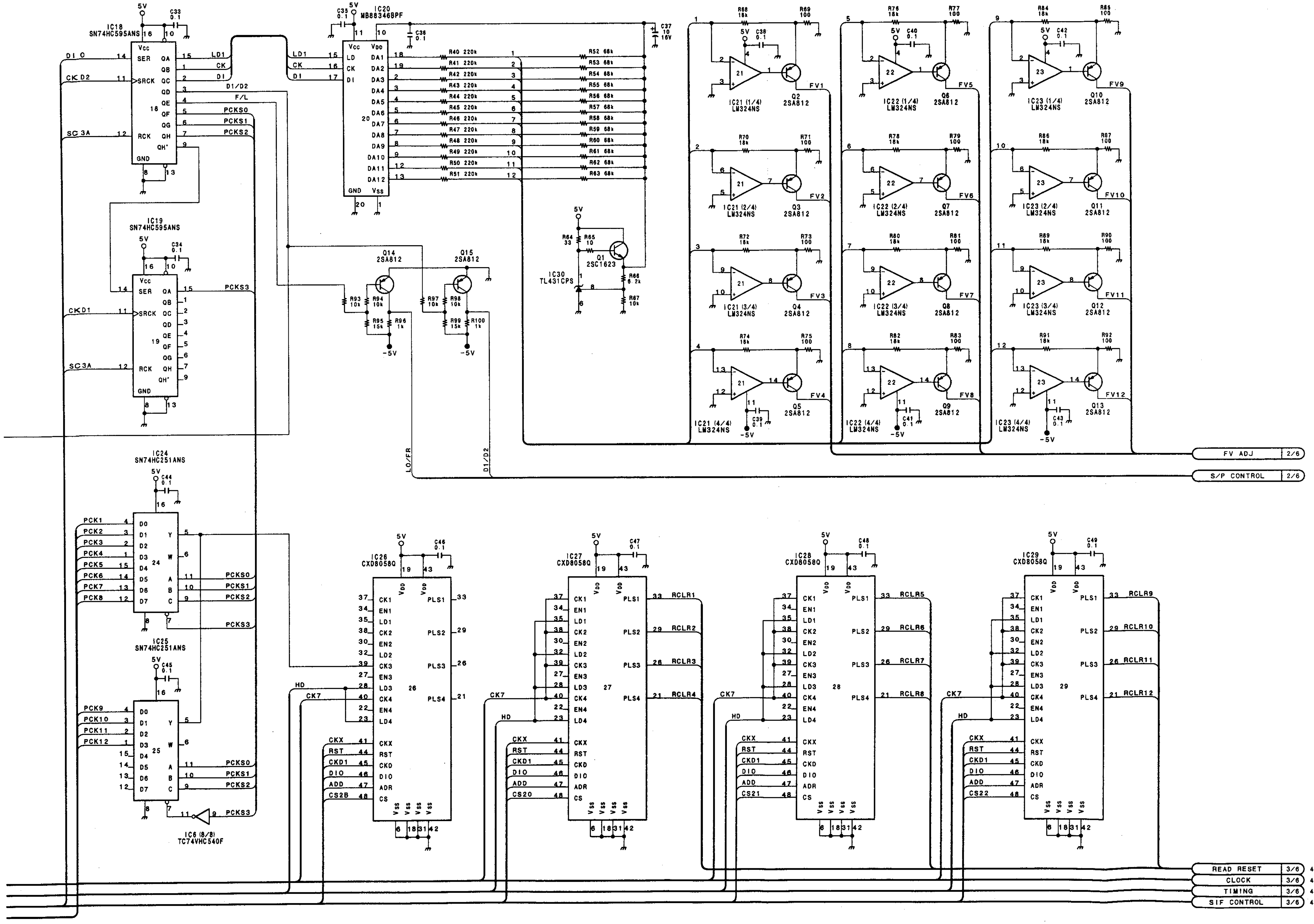

C62 0.1
3V
IC43 TC74VHC574F
RB25 22
RB26 22
C63 0.1
IC44 TC74VHC574F
RB27 22
RB28 22
C64 0.1
IC45 TC74VHC574F
RB29 22
RB30 22
CKL4
R10-3
R10-2
R10-1
R10-0
R11-9
R11-8
R11-7
R11-6
R11-5
R11-4
R11-3
R11-2
R11-1
R11-0
R12-9
R12-8
R12-7
R12-6
R12-5
R12-4
R12-3
R12-2
R12-1
R12-0
IN10-3
IN10-2
IN10-1
IN10-0
IN11-9
IN11-8
IN11-7
IN11-6
IN11-5
IN11-4
IN11-3
IN11-2
IN11-1
IN11-0
IN12-9
IN12-8
IN12-7
IN12-6
IN12-5
IN12-4
IN12-3
IN12-2
IN12-1
IN12-0
CNX1
CNY1
CNZ1
GND

12 Input Serial Digital Board
DI-22 (6/6)
BKDS-7102
BOARD NO. 1-658-404-12
LOT NO. 509-
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22

3-201 (b)

BKDS-7102 (SY) : S/N 10001 through 10250


CNX1
SLOT4
SLOT3
SLOT2
SLOT1
SLOT0
CKD (+)
CKD (−)
WDATA (+)
WDATA (−)
SADDA (+)
SADDA (−)
RDATA (+)
RDATA (−)
THERMO
CKX
RST
CK (27M/8FSC)
HD
VD
FLOE
V-BLNK
SC
CFP
LALT
SYNC
FUSE (+5V)
+5V
−5V
FUSE (−5V)
FUSE (+3V)
+3V
PCK
IC1 TC4S66F
IC2 SN75ALS195J
IC3 SN75ALS194N
IC4 CXD8052Q
IC5 CAT35C104K
IC6 TC74VHC540F
IC7 TC74VHC240F
IC9 TC74VHC244F
IC10 TC74ACT574F
IC11 TC74VHC00F
IC12 TC74VHC74F
IC13 TC74VHC240F
IC14 TC74VHC240F
IC15 TC74VHC240F
IC16 TC74VHC244F
IC17 TC74ACT574F
TH1 102AT-2
D1 1SS226
D2 1SS226
D3 1SS226
F1 10A
F2 10A
F3 10A
L1
L2
L3
RB31
RB32
RB33
RB34
RB35
RB36
RB37
E1
E2
5V
3V
−5V
CKD1
CKD2
CKD3
CKD4
CKD5
CKD6
CKD7
CKD8
CK1
CK2
CK3
CK4
CK5
CK6
CK7
CKL1
CKL2
CKL3
CKL4
CKR1
CKR2
CKR3
CKR4
SC3A
CF
OE
VD
HD
1
2
3
4
5
A
B
C
D
E
F
G
H

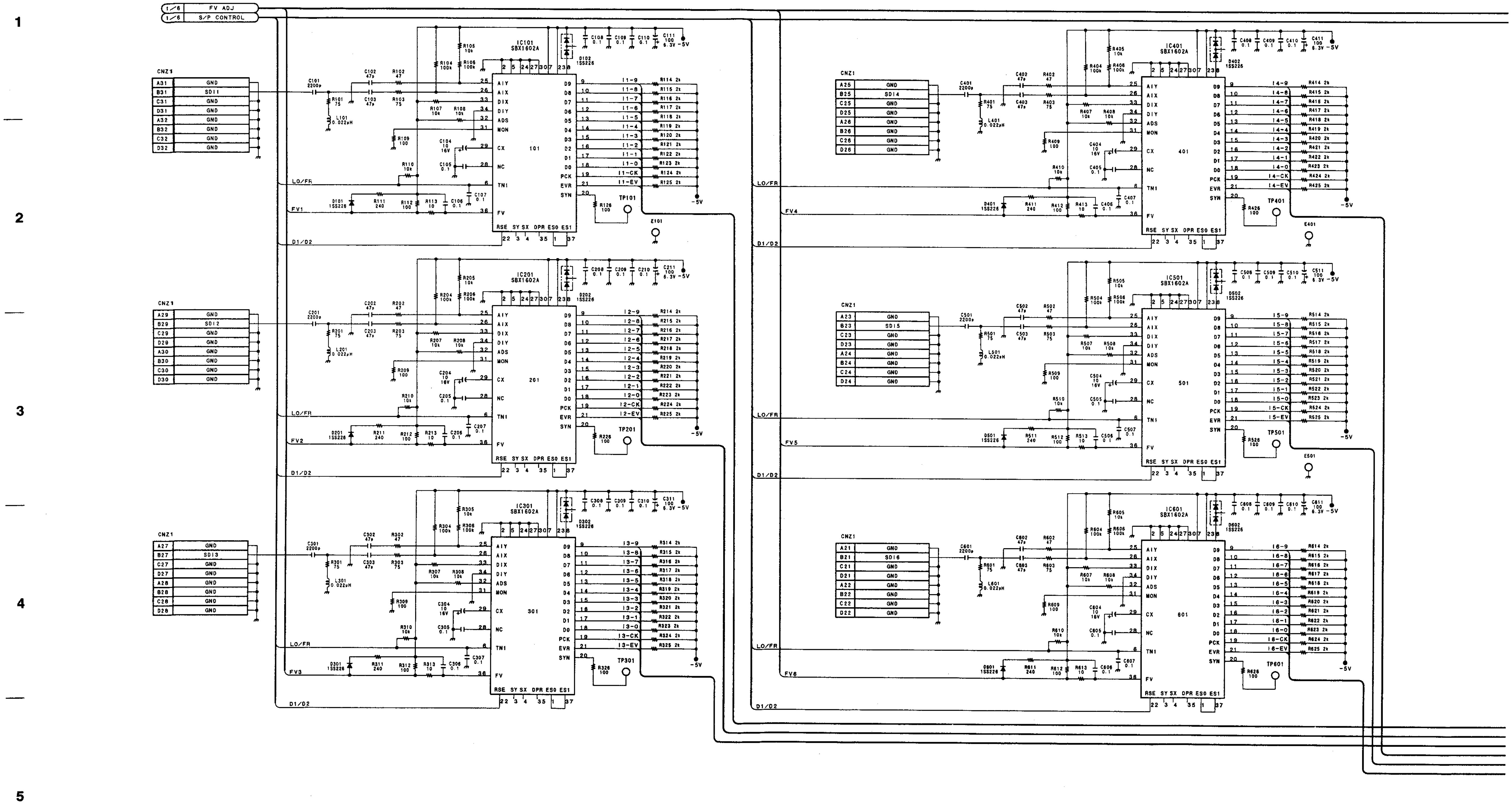

IC18 SN74HC595ANS
IC19 SN74HC595ANS
IC20 MB88346BPF
IC24 SN74HC251ANS
IC25 SN74HC251ANS
IC6 (8/8) TC74VHC540F
IC21 LM324NS
IC22 LM324NS
IC23 LM324NS
IC30 TL431CPS
Q1 2SC1623
Q14 2SA812
Q15 2SA812
IC26 CXD8058Q
IC27 CXD8058Q
IC28 CXD8058Q
IC29 CXD8058Q
FV1
FV2
FV3
FV4
FV5
FV6
FV7
FV8
FV9
FV10
FV11
FV12
FV ADJ 2/6
S/P CONTROL 2/6
READ RESET 3/6 4/6, 5/6
CLOCK 3/6 4/6, 5/6, 6/6
TIMING 3/6 4/6, 5/6
SIF CONTROL 3/6 4/6, 5/6
RCLR1
RCLR2
RCLR3
RCLR4
RCLR5
RCLR6
RCLR7
RCLR8
RCLR9
RCLR10
RCLR11
RCLR12
-5V
5V
1
2
3
4
5
I
J
K
L
M
N
O
P

12 Input Serial Digital Board
DI-22 (1/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

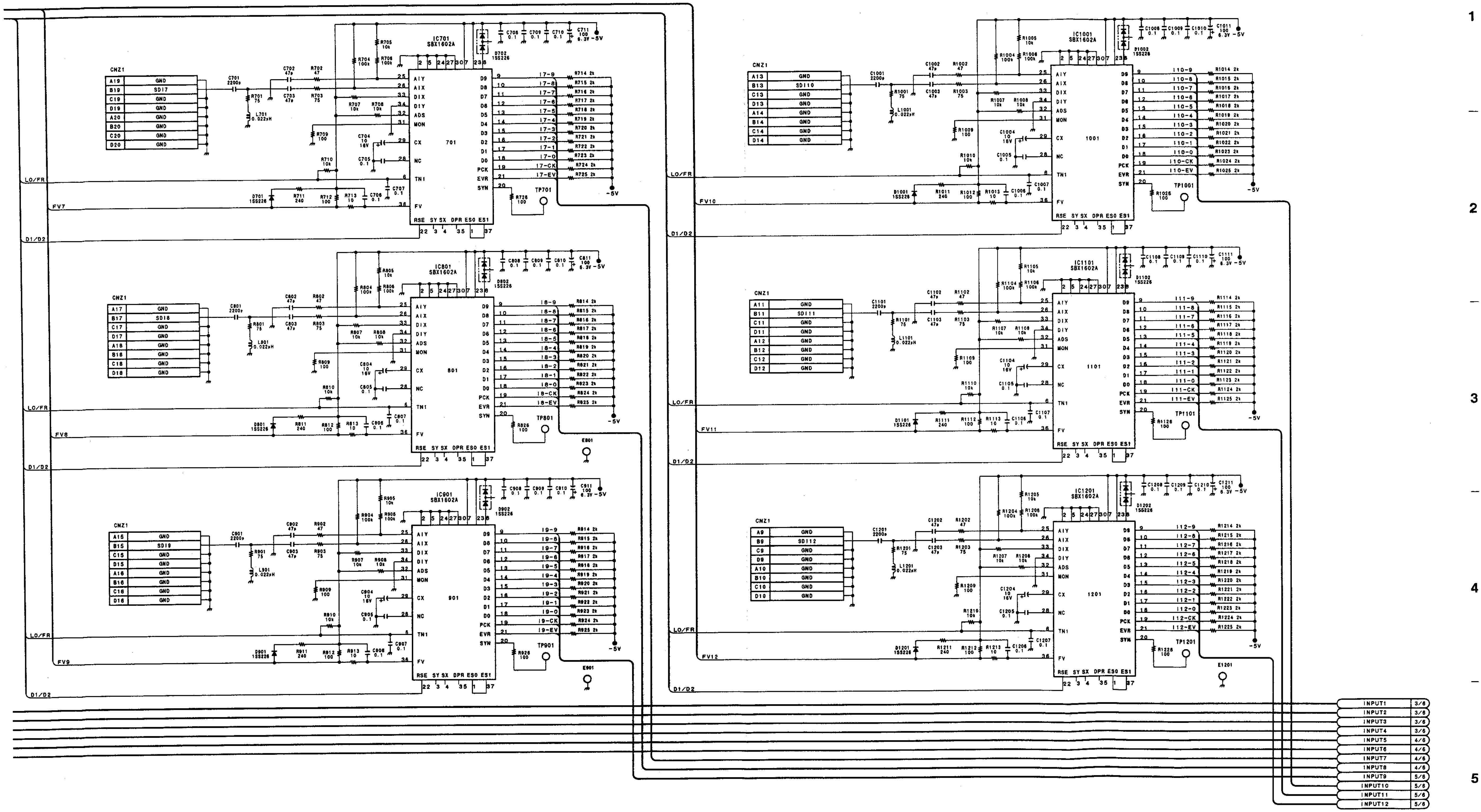
3-191 (a)

DI-22 (2/6) 12 Input Serial Digital Board

BKDS-7102 (SY) : S/N 10001 through 10250


1
2
3
4
5
1/6 FV ADJ
1/6 S/P CONTROL
CNZ1
A31 GND
B31 SDI1
C31 GND
D31 GND
A32 GND
B32 GND
C32 GND
D32 GND
A29 GND
B29 SDI2
C29 GND
D29 GND
A30 GND
B30 GND
C30 GND
D30 GND
A27 GND
B27 SDI3
C27 GND
D27 GND
A28 GND
B28 GND
C28 GND
D28 GND
A25 GND
B25 SDI4
C25 GND
D25 GND
A26 GND
B26 GND
C26 GND
D26 GND
A23 GND
B23 SDI5
C23 GND
D23 GND
A24 GND
B24 GND
C24 GND
D24 GND
A21 GND
B21 SDI6
C21 GND
D21 GND
A22 GND
B22 GND
C22 GND
D22 GND
IC101 SBX1602A
IC201 SBX1602A
IC301 SBX1602A
IC401 SBX1602A
IC501 SBX1602A
IC601 SBX1602A
AIY AIX DIX DIY ADS MON CX NC TN1 FV
D9 D8 D7 D6 D5 D4 D3 D2 D1 D0 PCK EVR SYN
RSE SY SX OPR ES0 ES1
LO/FR
FV1
FV2
FV3
FV4
FV5
FV6
D1/D2
TP101
TP201
TP301
TP401
TP501
TP601
E101
E401
E501
-5V
6.3V -5V
1SS226
11-9 11-8 11-7 11-6 11-5 11-4 11-3 11-2 11-1 11-0 11-CK 11-EV
12-9 12-8 12-7 12-6 12-5 12-4 12-3 12-2 12-1 12-0 12-CK 12-EV
13-9 13-8 13-7 13-6 13-5 13-4 13-3 13-2 13-1 13-0 13-CK 13-EV
14-9 14-8 14-7 14-6 14-5 14-4 14-3 14-2 14-1 14-0 14-CK 14-EV
15-9 15-8 15-7 15-6 15-5 15-4 15-3 15-2 15-1 15-0 15-CK 15-EV
16-9 16-8 16-7 16-6 16-5 16-4 16-3 16-2 16-1 16-0 16-CK 16-EV

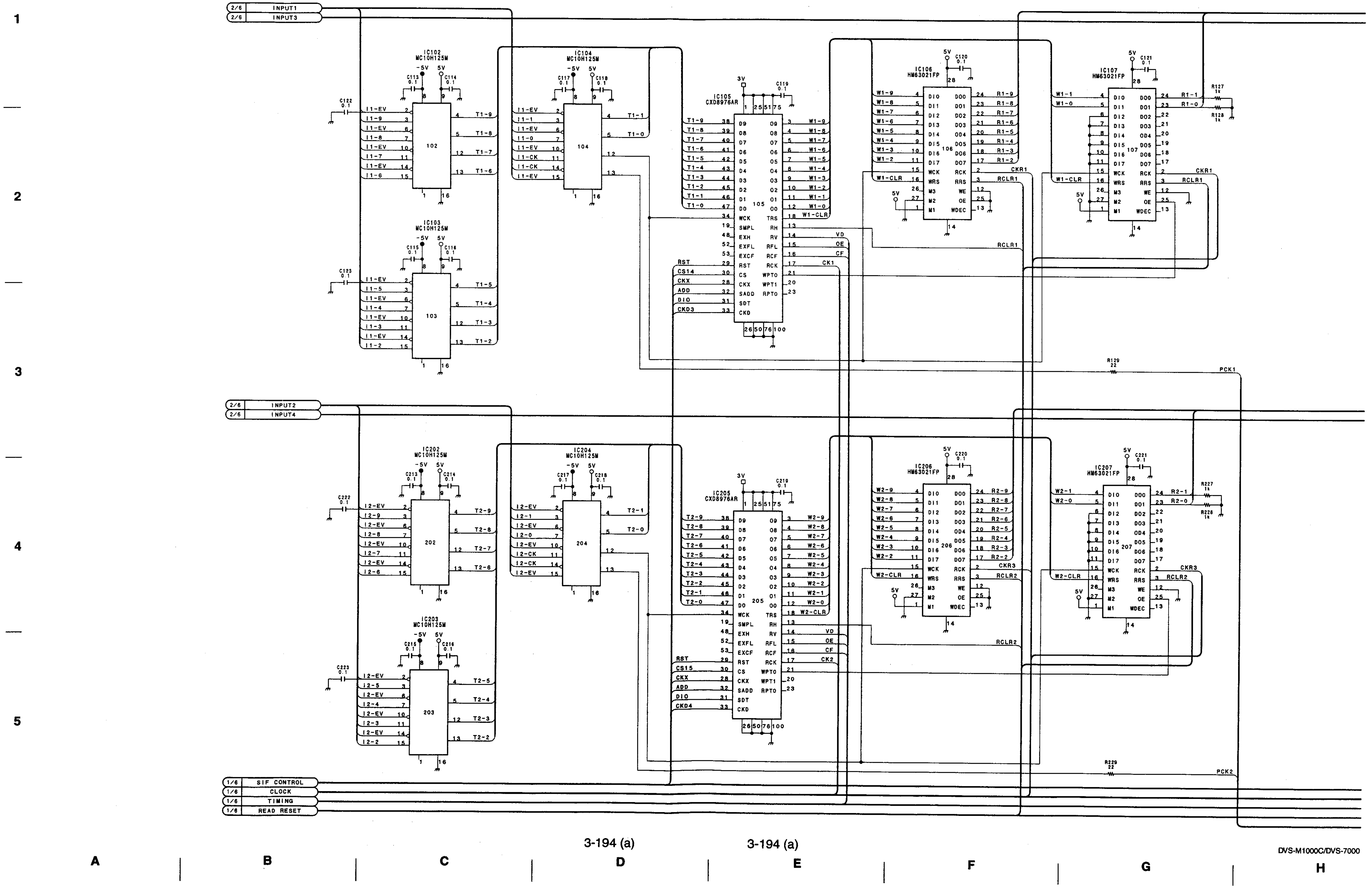
3-192 (a)


1
2
3
4
5
IC701
SBX1602A
IC801
SBX1602A
IC901
SBX1602A
IC1001
SBX1602A
IC1101
SBX1602A
IC1201
SBX1602A
CNZ1
GND
SDI7
SDI8
SDI9
SDI10
SDI11
SDI12
LO/FR
FV7
FV8
FV9
FV10
FV11
FV12
D1/D2
TP701
TP801
TP901
TP1001
TP1101
TP1201
E801
E901
E1201
-5V
6.3V
1SS226
INPUT1 3/6
INPUT2 3/6
INPUT3 3/6
INPUT4 3/6
INPUT5 4/6
INPUT6 4/6
INPUT7 4/6
INPUT8 4/6
INPUT9 5/6
INPUT10 5/6
INPUT11 5/6
INPUT12 5/6

12 Input Serial Digital Board
DI-22 (2/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

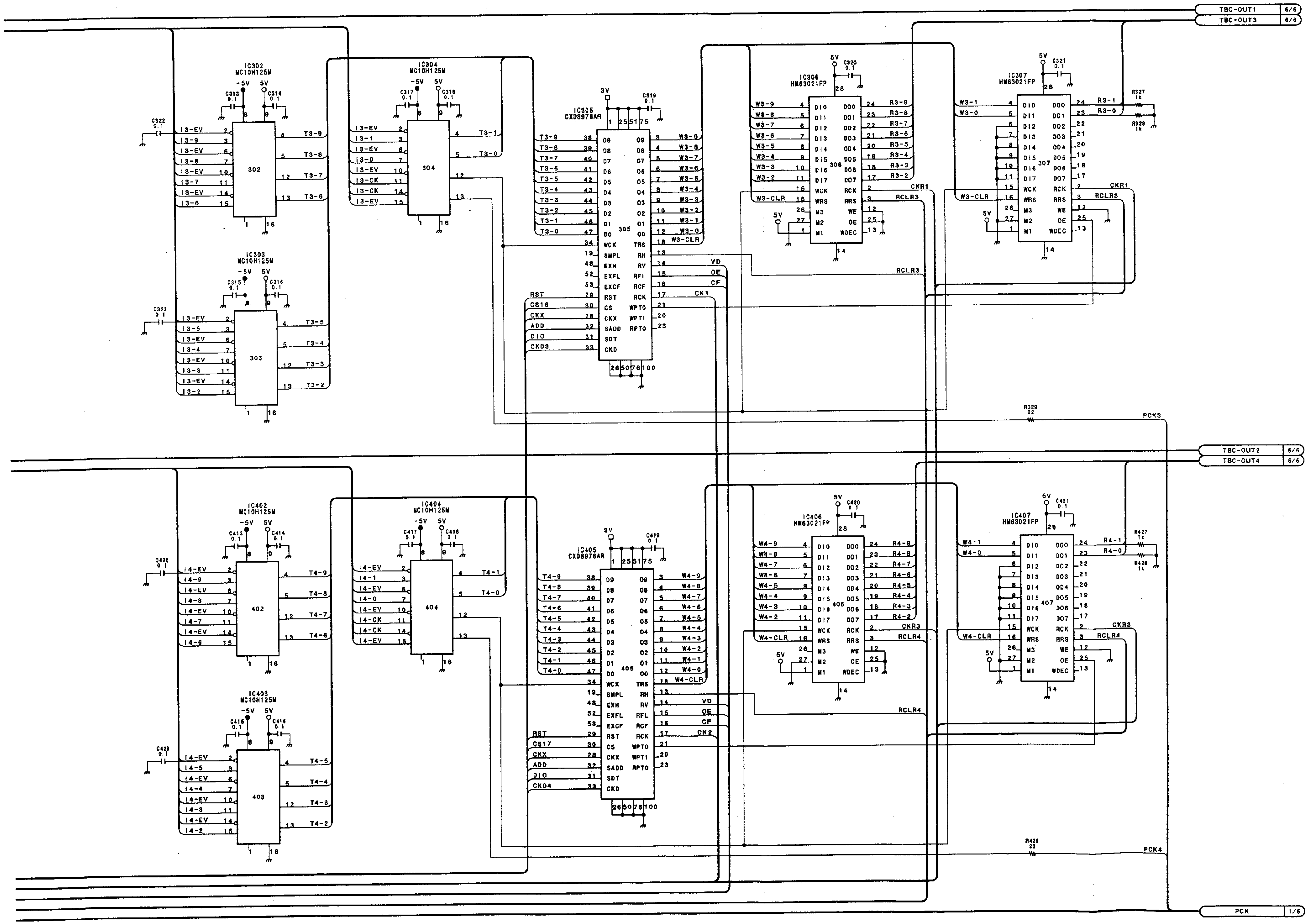
DI-22 (3/6) 12 Input Serial Digital Board

BKDS-7102 (SY) : S/N 10001 through 10250



1
2
3
4
5
A
B
C
D
E
F
G
H
2/6 INPUT1
2/6 INPUT3
2/6 INPUT2
2/6 INPUT4
IC102 MC10H125M
IC103 MC10H125M
IC104 MC10H125M
IC105 CXD8976AR
IC106 HM63021FP
IC107 HM63021FP
IC202 MC10H125M
IC203 MC10H125M
IC204 MC10H125M
IC205 CXD8976AR
IC206 HM63021FP
IC207 HM63021FP
-5V
5V
3V
C113 0.1
C114 0.1
C115 0.1
C116 0.1
C117 0.1
C118 0.1
C119 0.1
C120 0.1
C121 0.1
C122 0.1
C123 0.1
C213 0.1
C214 0.1
C215 0.1
C216 0.1
C217 0.1
C218 0.1
C219 0.1
C220 0.1
C221 0.1
C222 0.1
C223 0.1
R127 1k
R128 1k
R129 22
R227 1k
R228 1k
R229 22
T1-1
T1-0
W1-CLR
R1-1
R1-0
CKR1
RCLR1
CK1
PCK1
T2-1
T2-0
W2-CLR
R2-1
R2-0
CKR3
RCLR2
CK2
PCK2
RST
CS14
CS15
CKX
ADD
DIO
CKD3
CKD4
VD
OE
CF
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET

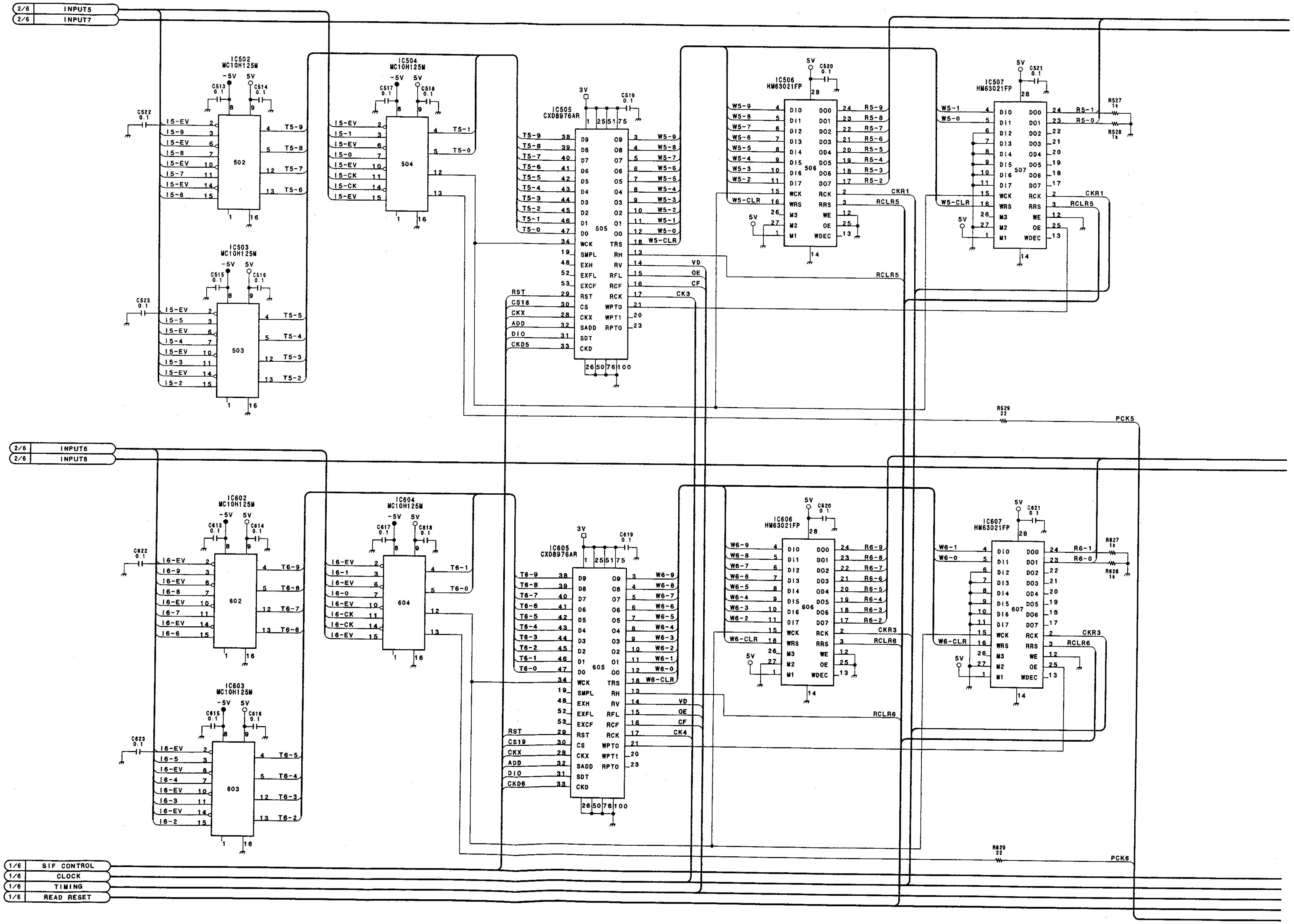
3-194 (a)


TBC-OUT1 6/6
TBC-OUT3 6/6
TBC-OUT2 6/6
TBC-OUT4 6/6
PCK 1/6
IC302 MC10H125M
IC303 MC10H125M
IC304 MC10H125M
IC305 CXD8976AR
IC306 HM63021FP
IC307 HM63021FP
IC402 MC10H125M
IC403 MC10H125M
IC404 MC10H125M
IC405 CXD8976AR
IC406 HM63021FP
IC407 HM63021FP
C322 0.1
C323 0.1
C313 0.1
C314 0.1
C315 0.1
C316 0.1
C317 0.1
C318 0.1
C319 0.1
C320 0.1
C321 0.1
C422 0.1
C423 0.1
C413 0.1
C414 0.1
C415 0.1
C416 0.1
C417 0.1
C418 0.1
C419 0.1
C420 0.1
C421 0.1
R327 1k
R328 1k
R329 22
R427 1k
R428 1k
R429 22
-5V
5V
3V
PCK3
PCK4
CKR1
CKR3
RCLR3
RCLR4
VD
OE
CF
CK1
CK2
RST
CS16
CS17
CKX
ADD
DIO
CKD3
CKD4
W3-CLR
W4-CLR
1
2
3
4
5
I
J
K
L
M
N
O
P

12 Input Serial Digital Board
DI-22 (3/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

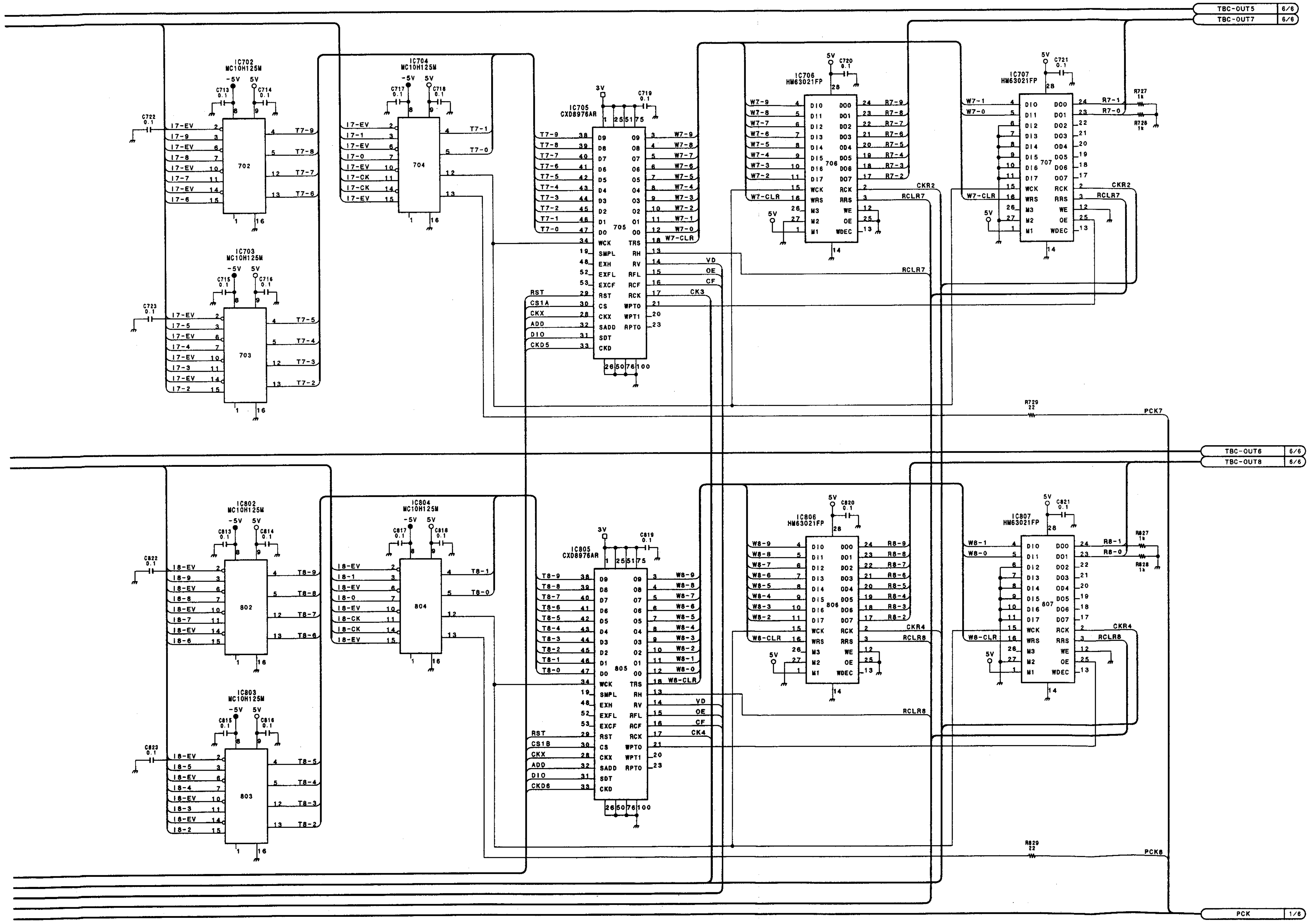
DI-22 (4/6) 12 Input Serial Digital Board

BKDS-7102 (SY) : S/N 10001 through 10250


1
2
3
4
5
2/6 INPUT5
2/6 INPUT7
2/6 INPUT6
2/6 INPUT8
IC502 MC10H125M
IC503 MC10H125M
IC504 MC10H125M
IC505 CXD8976AR
IC506 HM63021FP
IC507 HM63021FP
IC602 MC10H125M
IC603 MC10H125M
IC604 MC10H125M
IC605 CXD8976AR
IC606 HM63021FP
IC607 HM63021FP
-5V
5V
3V
R527 1k
R528 1k
R529 22
R627 1k
R628 1k
R629 22
CKR1
RCLR5
CKR3
RCLR6
PCK5
PCK6
VD
OE
CF
CK3
CK4
RST
CS18
CS19
CKX
ADD
DIO
CKD5
CKD6
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET

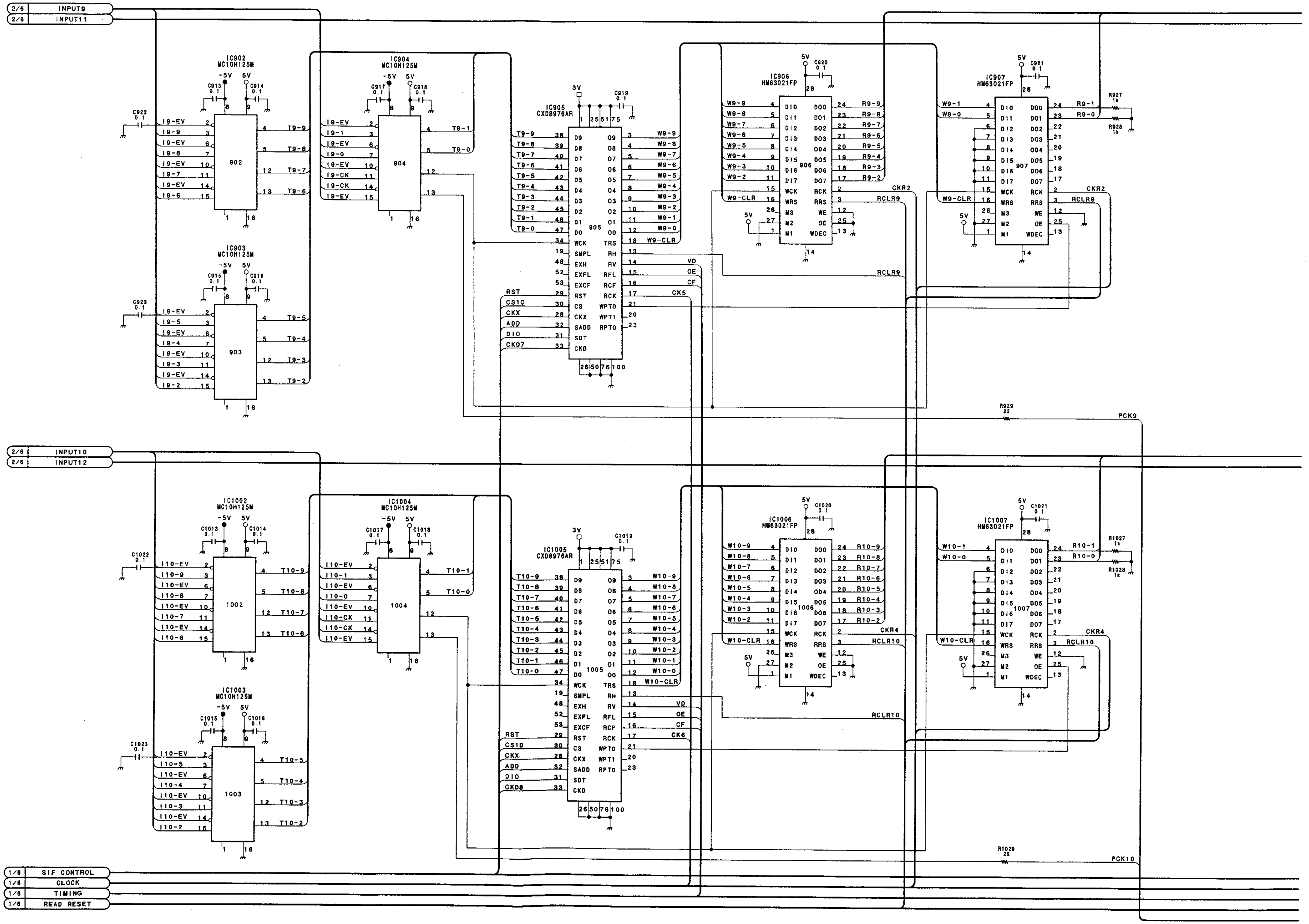
3-196 (a)

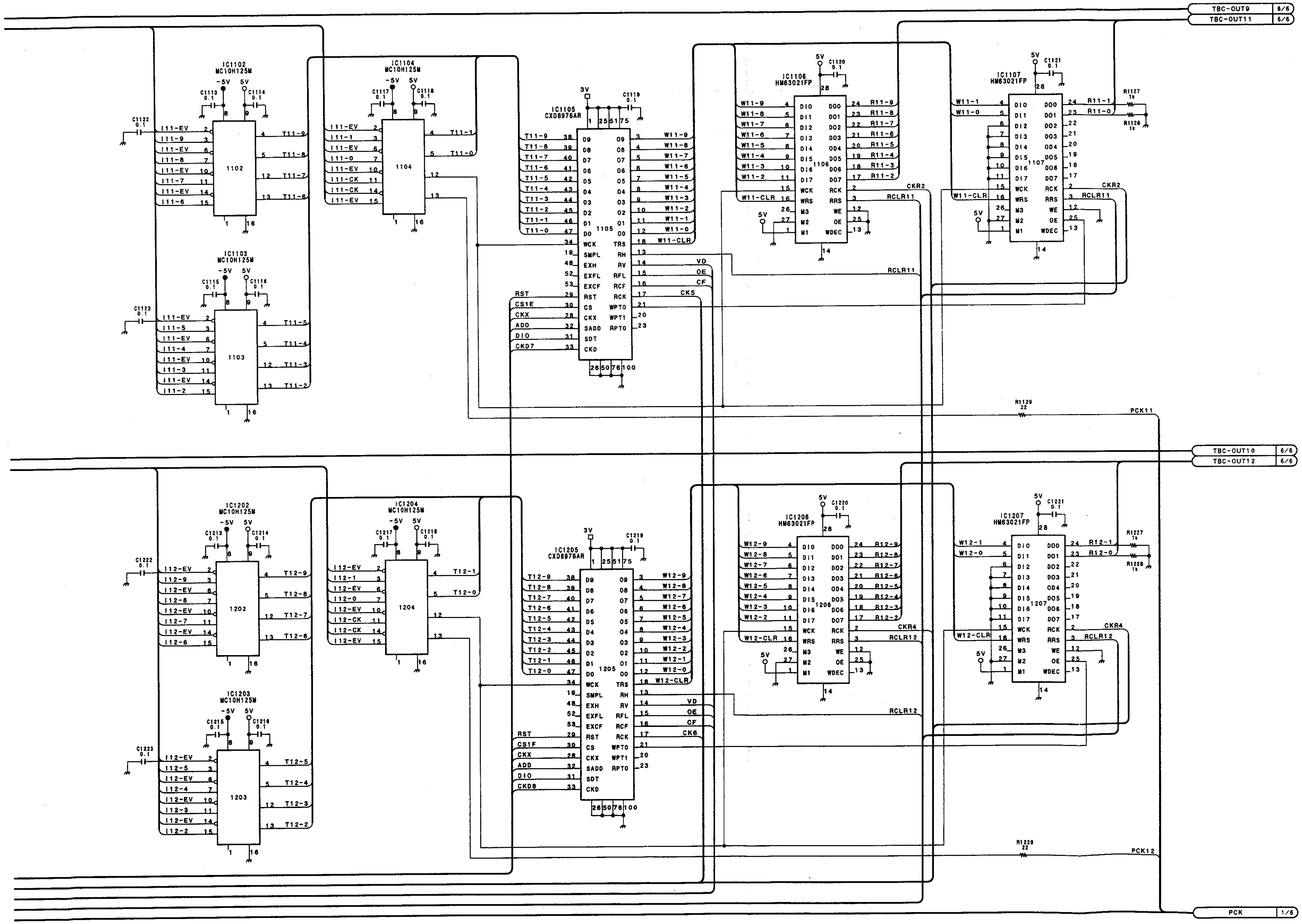
A B C D E F G H


IC702
MC10H125M
IC703
MC10H125M
IC704
MC10H125M
IC705
CXD8976AR
IC706
HM63021FP
IC707
HM63021FP
IC802
MC10H125M
IC803
MC10H125M
IC804
MC10H125M
IC805
CXD8976AR
IC806
HM63021FP
IC807
HM63021FP
TBC-OUT5
TBC-OUT7
TBC-OUT6
TBC-OUT8
PCK
6/6
1/6
PCK7
PCK8
R729
22
R829
22
CKR2
CKR4
RCLR7
RCLR8
VD
OE
CF
CK3
CK4
RST
CS1A
CS1B
CKX
ADO
DIO
CKD5
CKD6
W7-CLR
W8-CLR
5V
-5V
3V
1
2
3
4
5
I
J
K
L
M
N
O
P

12 Input Serial Digital Board
DI-22 (4/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

BKDS-7102 (SY) : S/N 10001 through 10250

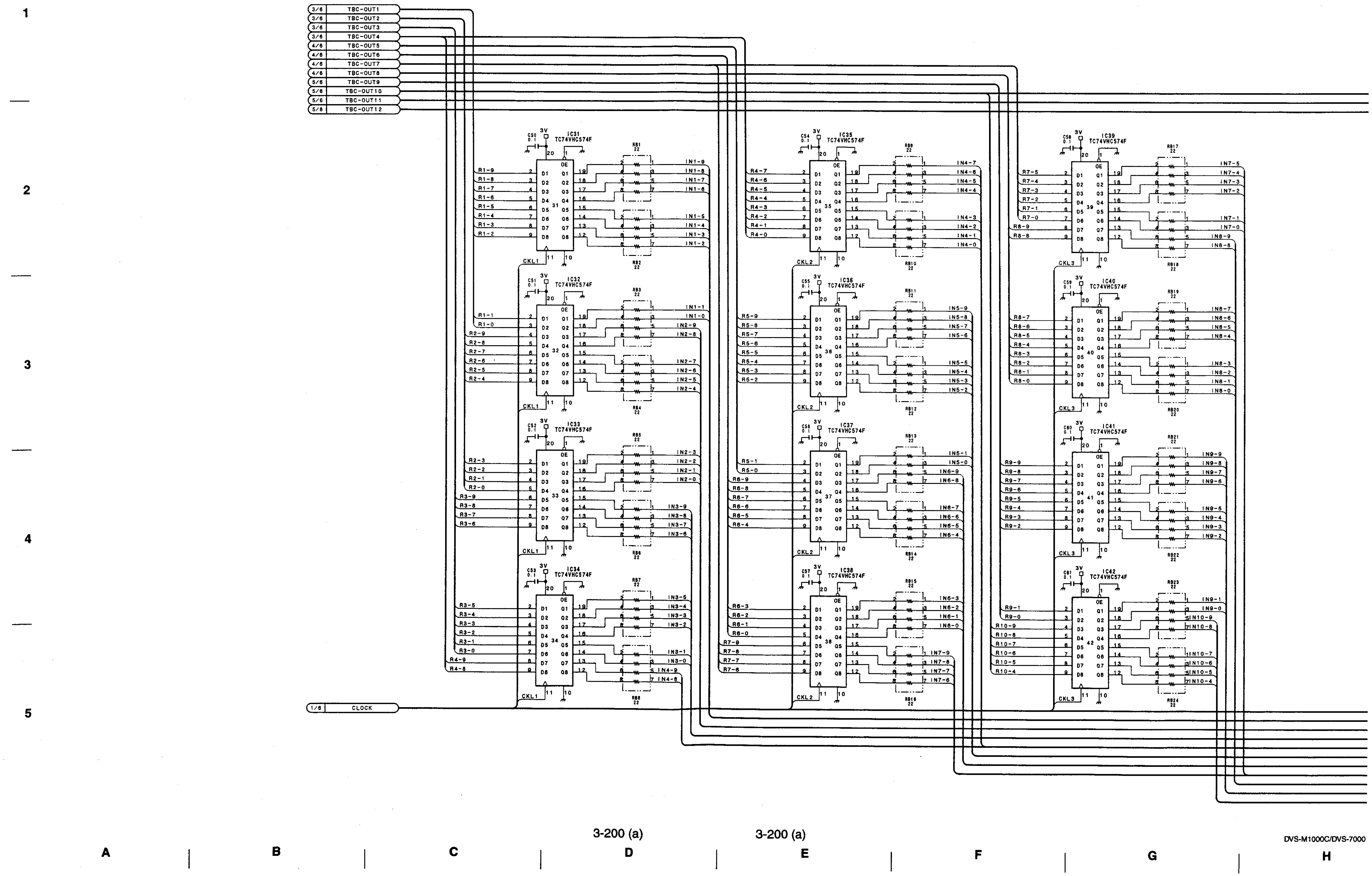

2/6 INPUT9
2/6 INPUT11
2/6 INPUT10
2/6 INPUT12
1/6 SIF CONTROL
1/6 CLOCK
1/6 TIMING
1/6 READ RESET
IC902 MC10H125M
IC903 MC10H125M
IC904 MC10H125M
IC905 CXD8976AR
IC906 HM63021FP
IC907 HM63021FP
IC1002 MC10H125M
IC1003 MC10H125M
IC1004 MC10H125M
IC1005 CXD8976AR
IC1006 HM63021FP
IC1007 HM63021FP
-5V
5V
3V
C913 0.1
C914 0.1
C915 0.1
C916 0.1
C917 0.1
C918 0.1
C919 0.1
C920 0.1
C921 0.1
C922 0.1
C923 0.1
C1013 0.1
C1014 0.1
C1015 0.1
C1016 0.1
C1017 0.1
C1018 0.1
C1019 0.1
C1020 0.1
C1021 0.1
C1022 0.1
C1023 0.1
R927 1k
R928 1k
R929 22
R1027 1k
R1028 1k
R1029 22
I9-EV
I9-9
I9-8
I9-7
I9-6
I9-5
I9-4
I9-3
I9-2
I9-1
I9-0
I9-CK
T9-9
T9-8
T9-7
T9-6
T9-5
T9-4
T9-3
T9-2
T9-1
T9-0
W9-9
W9-8
W9-7
W9-6
W9-5
W9-4
W9-3
W9-2
W9-1
W9-0
W9-CLR
R9-9
R9-8
R9-7
R9-6
R9-5
R9-4
R9-3
R9-2
R9-1
R9-0
I10-EV
I10-9
I10-8
I10-7
I10-6
I10-5
I10-4
I10-3
I10-2
I10-1
I10-0
I10-CK
T10-9
T10-8
T10-7
T10-6
T10-5
T10-4
T10-3
T10-2
T10-1
T10-0
W10-9
W10-8
W10-7
W10-6
W10-5
W10-4
W10-3
W10-2
W10-1
W10-0
W10-CLR
R10-9
R10-8
R10-7
R10-6
R10-5
R10-4
R10-3
R10-2
R10-1
R10-0
D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
O9 O8 O7 O6 O5 O4 O3 O2 O1 O0
WCK SMPL EXH EXFL EXCF RST CS CKX SADD SDT CKD
TRS RH RV RFL RCF RCK WPTO WPT1 RPTO
DI0 DI1 DI2 DI3 DI4 DI5 DI6 DI7 WCK WRS M3 M2 M1
DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7 RCK RRS WE OE WDEC
RST
CS1C
CS1D
CKX
ADD
DIO
CKD7
CKD8
VD
OE
CF
CK5
CK6
CKR2
CKR4
RCLR9
RCLR10
PCK9
PCK10
902
903
904
905
906
907
1002
1003
1004
1005
1006
1007
1
2
3
4
5
A
B
C
D
E
F
G
H


TBC-OUT9 6/6
TBC-OUT11 6/6
TBC-OUT10 6/6
TBC-OUT12 6/6
PCK 1/6
IC1102 MC10H125M
IC1103 MC10H125M
IC1104 MC10H125M
IC1105 CXD8976AR
IC1106 HM63021FP
IC1107 HM63021FP
IC1202 MC10H125M
IC1203 MC10H125M
IC1204 MC10H125M
IC1205 CXD8976AR
IC1206 HM63021FP
IC1207 HM63021FP
R1127 1k
R1128 1k
R1129 22
R1227 1k
R1228 1k
R1229 22
PCK11
PCK12
CKR2
CKR4
RCLR11
RCLR12
W11-CLR
W12-CLR
RST
CS1E
CS1F
CKX
ADD
DIO
CKD7
CKD8
VD
OE
CF
CK5
CK6
-5V
5V
3V
1
2
3
4
5
I
J
K
L
M
N
O
P

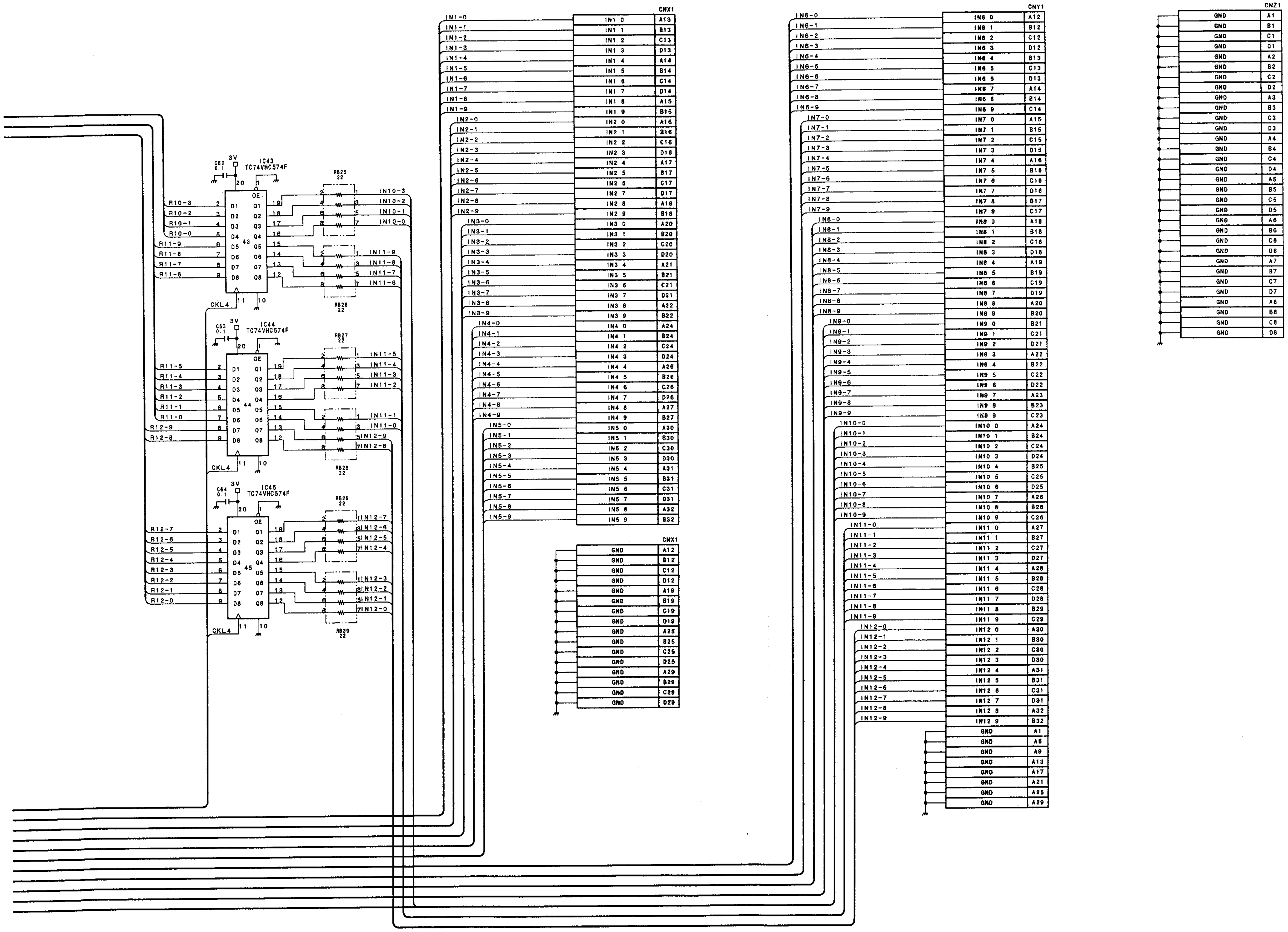
12 Input Serial Digital Board
DI-22 (5/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

DI-22 (6/6) 12 Input Serial Digital Board

BKDS-7102 (SY) : S/N 10001 through 10250

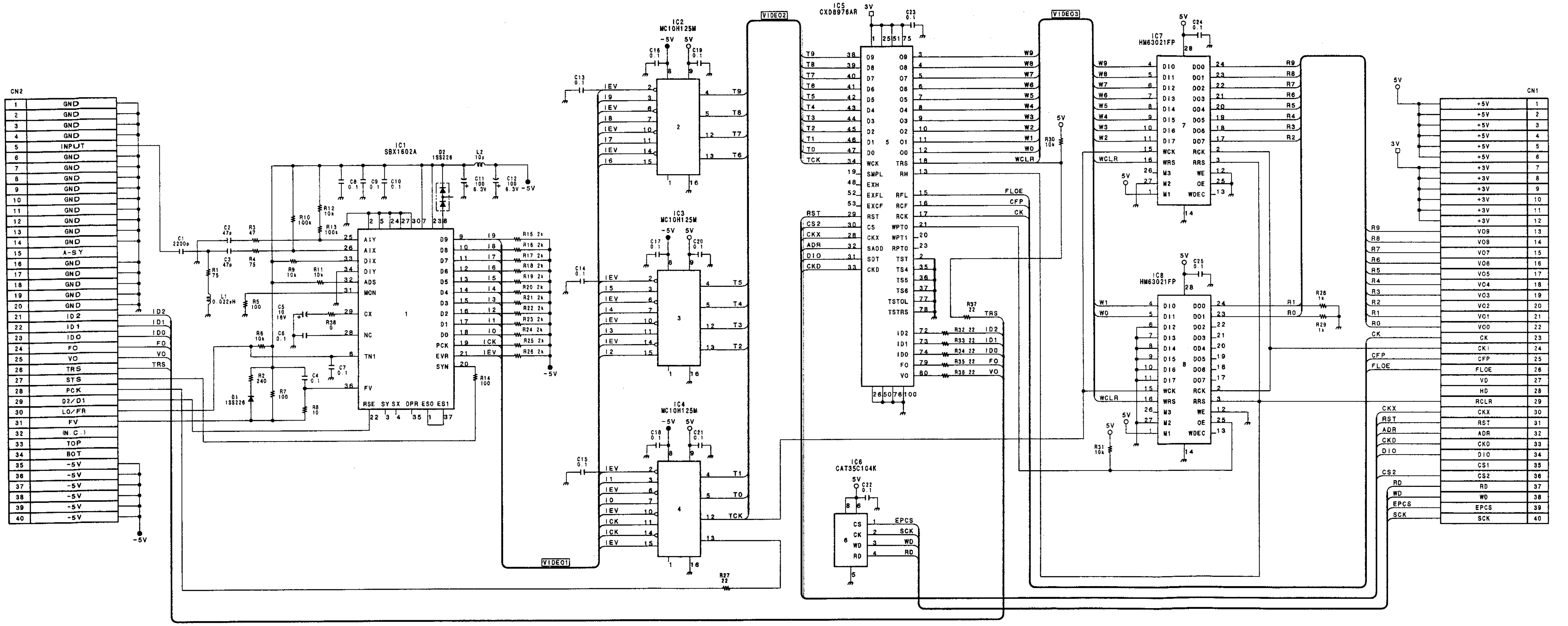

1
2
3
4
5
3/6 TBC-OUT1
3/6 TBC-OUT2
3/6 TBC-OUT3
3/6 TBC-OUT4
4/6 TBC-OUT5
4/6 TBC-OUT6
4/6 TBC-OUT7
4/6 TBC-OUT8
5/6 TBC-OUT9
5/6 TBC-OUT10
5/6 TBC-OUT11
5/6 TBC-OUT12
1/6 CLOCK
IC31 TC74VHC574F
IC32 TC74VHC574F
IC33 TC74VHC574F
IC34 TC74VHC574F
IC35 TC74VHC574F
IC36 TC74VHC574F
IC37 TC74VHC574F
IC38 TC74VHC574F
IC39 TC74VHC574F
IC40 TC74VHC574F
IC41 TC74VHC574F
IC42 TC74VHC574F
3V
C50 0.1
C51 0.1
C52 0.1
C53 0.1
C54 0.1
C55 0.1
C56 0.1
C57 0.1
C58 0.1
C59 0.1
C60 0.1
C61 0.1
CKL1
CKL2
CKL3
OE
D1 D2 D3 D4 D5 D6 D7 D8
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8
RB1 22
RB2 22
RB3 22
RB4 22
RB5 22
RB6 22
RB7 22
RB8 22
RB9 22
RB10 22
RB11 22
RB12 22
RB13 22
RB14 22
RB15 22
RB16 22
RB17 22
RB18 22
RB19 22
RB20 22
RB21 22
RB22 22
RB23 22
RB24 22
R1-9 R1-8 R1-7 R1-6 R1-5 R1-4 R1-3 R1-2 R1-1 R1-0
R2-9 R2-8 R2-7 R2-6 R2-5 R2-4 R2-3 R2-2 R2-1 R2-0
R3-9 R3-8 R3-7 R3-6 R3-5 R3-4 R3-3 R3-2 R3-1 R3-0
R4-9 R4-8 R4-7 R4-6 R4-5 R4-4 R4-3 R4-2 R4-1 R4-0
R5-9 R5-8 R5-7 R5-6 R5-5 R5-4 R5-3 R5-2 R5-1 R5-0
R6-9 R6-8 R6-7 R6-6 R6-5 R6-4 R6-3 R6-2 R6-1 R6-0
R7-9 R7-8 R7-7 R7-6 R7-5 R7-4 R7-3 R7-2 R7-1 R7-0
R8-9 R8-8 R8-7 R8-6 R8-5 R8-4 R8-3 R8-2 R8-1 R8-0
R9-9 R9-8 R9-7 R9-6 R9-5 R9-4 R9-3 R9-2 R9-1 R9-0
R10-9 R10-8 R10-7 R10-6 R10-5 R10-4
IN1-9 IN1-8 IN1-7 IN1-6 IN1-5 IN1-4 IN1-3 IN1-2 IN1-1 IN1-0
IN2-9 IN2-8 IN2-7 IN2-6 IN2-5 IN2-4 IN2-3 IN2-2 IN2-1 IN2-0
IN3-9 IN3-8 IN3-7 IN3-6 IN3-5 IN3-4 IN3-3 IN3-2 IN3-1 IN3-0
IN4-9 IN4-8 IN4-7 IN4-6 IN4-5 IN4-4 IN4-3 IN4-2 IN4-1 IN4-0
IN5-9 IN5-8 IN5-7 IN5-6 IN5-5 IN5-4 IN5-3 IN5-2 IN5-1 IN5-0
IN6-9 IN6-8 IN6-7 IN6-6 IN6-5 IN6-4 IN6-3 IN6-2 IN6-1 IN6-0
IN7-9 IN7-8 IN7-7 IN7-6 IN7-5 IN7-4 IN7-3 IN7-2 IN7-1 IN7-0
IN8-9 IN8-8 IN8-7 IN8-6 IN8-5 IN8-4 IN8-3 IN8-2 IN8-1 IN8-0
IN9-9 IN9-8 IN9-7 IN9-6 IN9-5 IN9-4 IN9-3 IN9-2 IN9-1 IN9-0
IN10-9 IN10-8 IN10-7 IN10-6 IN10-5 IN10-4
A B C D E F G H

3-200 (a)


IC43 TC74VHC574F
IC44 TC74VHC574F
IC45 TC74VHC574F
C62 0.1
C63 0.1
C64 0.1
3V
CKL4
RB25 22
RB26 22
RB27 22
RB28 22
RB29 22
RB30 22
CNX1
CNY1
CNZ1
GND
1
2
3
4
5

12 Input Serial Digital Board
DI-22 (6/6)
BKDS-7102
BOARD NO. 1-658-404-11
LOT NO. 506-508
FOR DVS-M1000C/DVS-7000
B-¥SJX050-DI22-11

BKDS-7112 (SY) : S/N 10401 and Higher

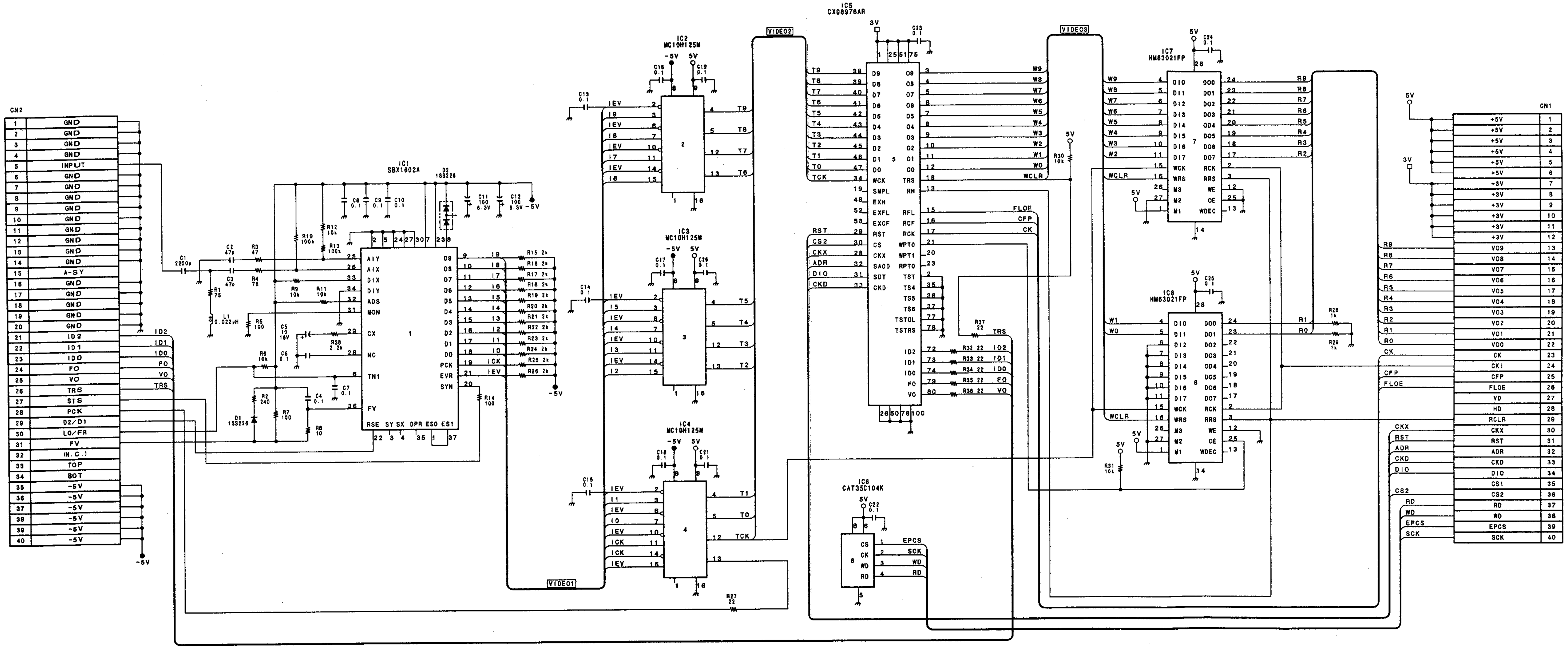

CN2
IC1 SBX1602A
D2 1SS226
IC2 MC10H125M
IC3 MC10H125M
IC4 MC10H125M
IC5 CXD8976AR
IC6 CAT35C104K
IC7 HM63021FP
IC8 HM63021FP
VIDEO1
VIDEO2
VIDEO3
CN1
-5V
5V
3V

Serial Digital Input Board

DI-24

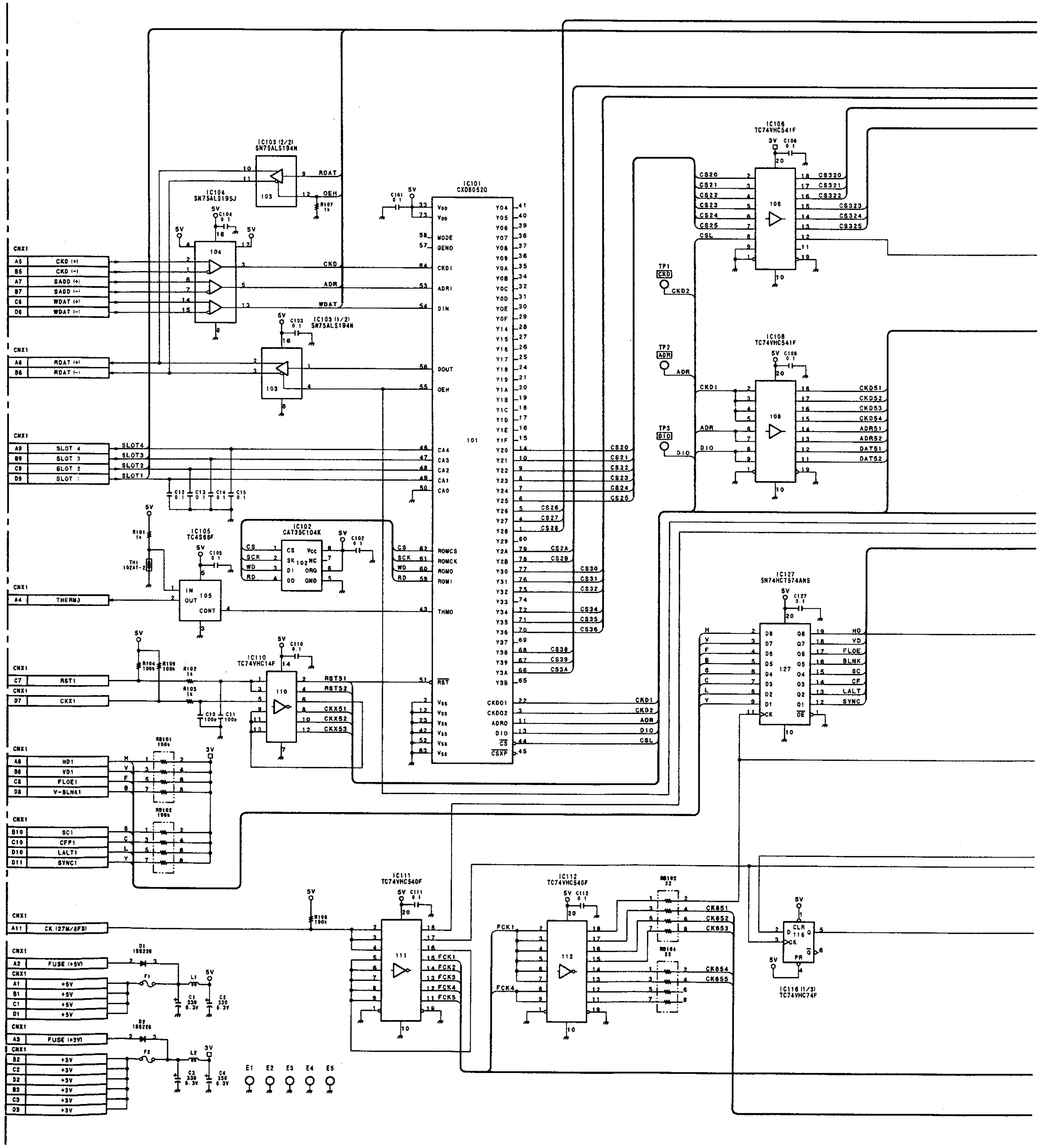
BKDS-7112
BOARD NO. 1-658-410-12
LOT NO. 509-
FOR DVS-7000/DMK-7000
B-¥SJX050-DI24

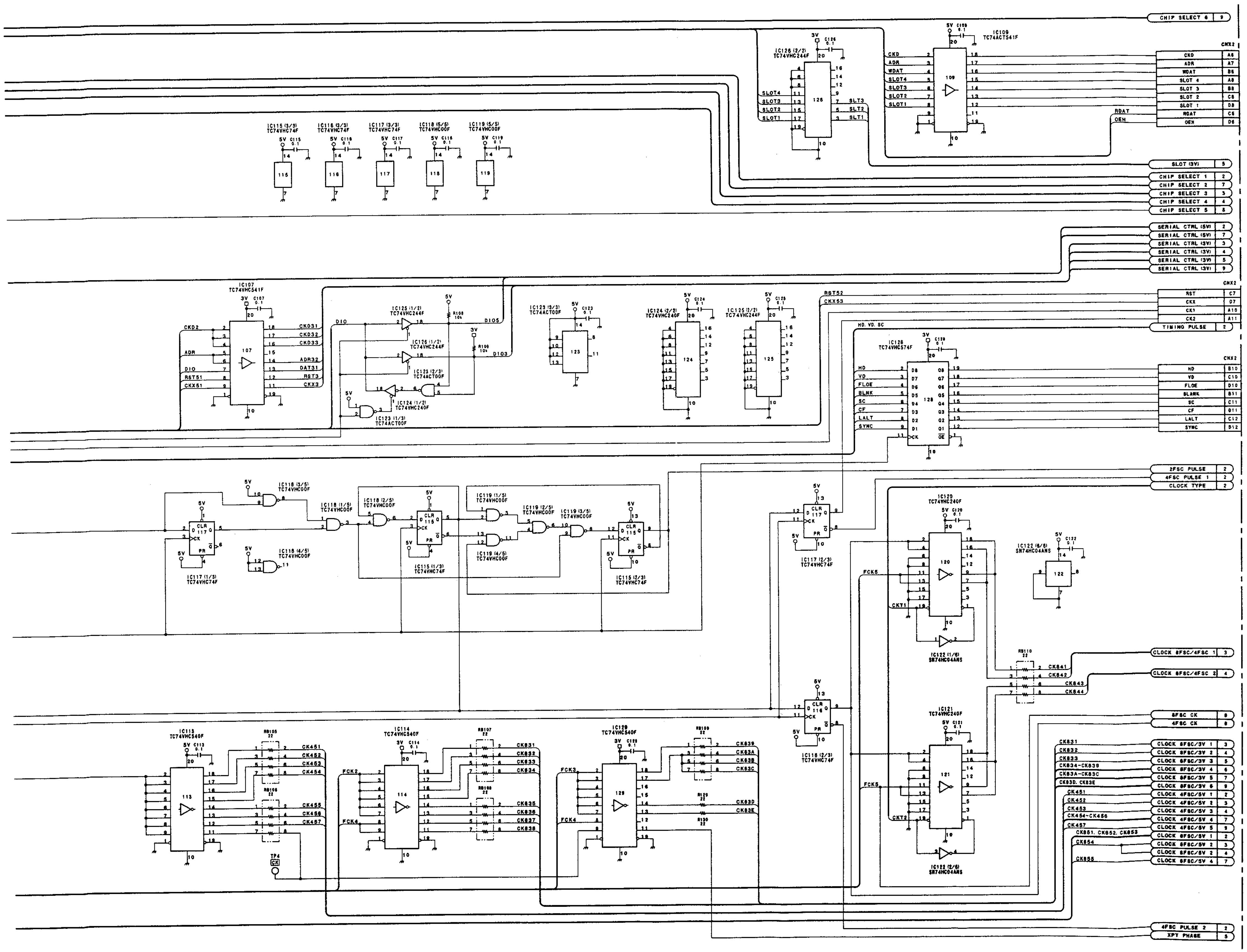
BKDS-7112 (SY) : S/N 10001 through10400


CN2
IC1 SBX1602A
IC2 MC10H125M
IC3 MC10H125M
IC4 MC10H125M
IC5 CXD8976AR
IC6 CAT35C104K
IC7 HM63021FP
IC8 HM63021FP
CN1
VIDEO1
VIDEO2
VIDEO3
-5V
5V
3V

Serial Digital Input Board
DI-24
BKDS-7112
BOARD NO. 1-658-410-11
LOT NO. 506-508
FOR DVS-7000/DMK-7000
B-¥SJX050-DI24-11

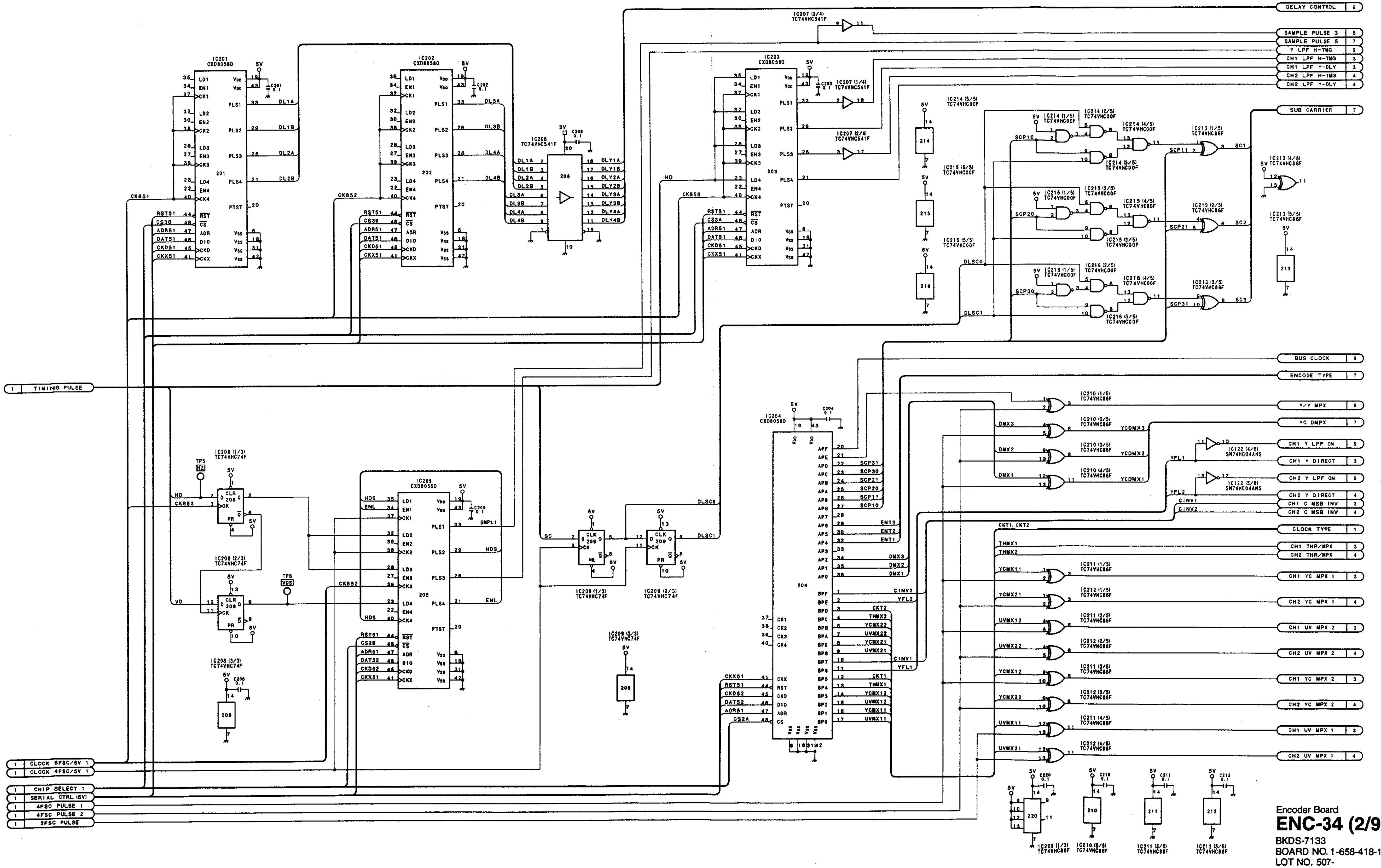
BKDS-7133 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CNX1
CKD (+)
CKD (-)
SADD (+)
SADD (-)
WDAT (+)
WDAT (-)
RDAT (+)
RDAT (-)
SLOT 4
SLOT 3
SLOT 2
SLOT 1
THERMJ
RST1
CKX1
HD1
VD1
FLOE1
V-BLNK1
SC1
CFP1
LALT1
SYNC1
CK (27M/8FS)
FUSE (+5V)
+5V
FUSE (+3V)
+3V
IC101 CXD8052Q
IC102 CAT35C104K
IC103 (2/2) SN75ALS194N
IC103 (1/2) SN75ALS194N
IC104 SN75ALS195J
IC105 TC4S66F
IC106 TC74VHC541F
IC108 TC74VHC541F
IC110 TC74VHC14F
IC111 TC74VHC540F
IC112 TC74VHC540F
IC116 (1/3) TC74VHC74F
IC127 SN74HCT574ANS
TP1 CKD
TP2 ADR
TP3 DIO
RDAT
OEH
CKD
ADR
WDAT
DOUT
CKDI
ADRI
DIN
ROMCS
ROMCK
ROMO
ROMI
THMO
RST
CKDO1
CKDO2
ADRO
DIO
CS
CSXP
CS20
CS21
CS22
CS23
CS24
CS25
CSL
CS320
CS321
CS322
CS323
CS324
CS325
CKD1
CKD51
CKD52
CKD53
CKD54
ADR51
ADR52
DAT51
DAT52
HD
VD
FLOE
BLNK
SC
CF
LALT
SYNC
RST51
RST52
CKX51
CKX52
CKX53
FCK1
FCK2
FCK3
FCK4
FCK5
CK851
CK852
CK853
CK854
CK855
RB101 100k
RB102 100k
RB103 22
RB104 22
D1 1SS226
D2 1SS226
F1
F2
L1
L2
TH1
E1
E2
E3
E4
E5
5V
3V


CHIP SELECT 6 | 9
CNX2
CKD | A6
ADR | A7
WDAT | B6
SLOT 4 | A8
SLOT 3 | B8
SLOT 2 | C8
SLOT 1 | D8
RDAT | C6
OEN | D6
RDAT
OEN
SLOT (3V) | 5
CHIP SELECT 1 | 2
CHIP SELECT 2 | 7
CHIP SELECT 3 | 3
CHIP SELECT 4 | 4
CHIP SELECT 5 | 8
SERIAL CTRL (5V) | 2
SERIAL CTRL (5V) | 7
SERIAL CTRL (3V) | 3
SERIAL CTRL (3V) | 4
SERIAL CTRL (3V) | 5
SERIAL CTRL (3V) | 9
CNX2
RST | C7
CKX | D7
CK1 | A10
CK2 | A11
TIMING PULSE | 2
CNX2
HD | B10
VD | C10
FLOE | D10
BLANK | B11
SC | C11
CF | D11
LALT | C12
SYNC | D12
2FSC PULSE | 2
4FSC PULSE 1 | 2
CLOCK TYPE | 2
IC122 (6/6) SN74HC04ANS
RB110 22
CK841
CK842
CK843
CK844
CLOCK 8FSC/4FSC 1 | 3
CLOCK 8FSC/4FSC 2 | 4
8FSC CK | 8
4FSC CK | 8
CK831
CK832
CK833
CK834~CK839
CK83A~CK83C
CK83D, CK83E
CK451
CK452
CK453
CK454~CK456
CK457
CK851, CK852, CK853
CK854
CK855
CLOCK 8FSC/3V 1 | 3
CLOCK 8FSC/3V 2 | 4
CLOCK 8FSC/3V 3 | 5
CLOCK 8FSC/3V 4 | 6
CLOCK 8FSC/3V 5 | 7
CLOCK 8FSC/3V 6 | 9
CLOCK 4FSC/5V 1 | 2
CLOCK 4FSC/5V 2 | 3
CLOCK 4FSC/5V 3 | 4
CLOCK 4FSC/5V 4 | 7
CLOCK 4FSC/5V 5 | 9
CLOCK 8FSC/5V 1 | 2
CLOCK 8FSC/5V 2 | 3
CLOCK 8FSC/5V 2 | 4
CLOCK 8FSC/5V 4 | 7
4FSC PULSE 2 | 2
XPT PHASE | 3
IC126 (2/2) TC74VHC244F
IC109 TC74ACT541F
IC115 (3/3) TC74VHC74F
IC116 (3/3) TC74VHC74F
IC117 (3/3) TC74VHC74F
IC118 (5/5) TC74VHC00F
IC119 (5/5) TC74VHC00F
IC107 TC74VHC541F
IC125 (1/2) TC74VHC244F
IC126 (1/2) TC74VHC244F
IC123 (2/3) TC74ACT00F
IC123 (1/3) TC74ACT00F
IC124 (1/2) TC74VHC240F
IC123 (3/3) TC74ACT00F
IC124 (2/2) TC74VHC240F
IC125 (2/2) TC74VHC244F
IC128 TC74VHC574F
IC117 (1/3) TC74VHC74F
IC115 (1/3) TC74VHC74F
IC115 (2/3) TC74VHC74F
IC117 (2/3) TC74VHC74F
IC116 (2/3) TC74VHC74F
IC120 TC74VHC240F
IC121 TC74VHC240F
IC122 (1/6) SN74HC04ANS
IC122 (2/6) SN74HC04ANS
IC113 TC74VHC540F
IC114 TC74VHC540F
IC129 TC74VHC540F
CKD2
ADR
DIO
RST51
CKX51
CKD31
CKD32
CKD33
ADR32
DAT31
RST3
CKX3
DIO5
DIO3
RST52
CKX53
HD, VD, SC
HD
VD
FLOE
BLANK
SC
CF
LALT
SYNC
SLOT4
SLOT3
SLOT2
SLOT1
SLT3
SLT2
SLT1
FCK5
CKT1
CKT2
FCK2
FCK3
FCK4
CK451
CK452
CK453
CK454
CK455
CK456
CK457
CK831
CK832
CK833
CK834
CK835
CK836
CK837
CK838
CK839
CK83A
CK83B
CK83C
CK83D
CK83E
TP4 CK
1
2
3
4
5
I
J
K
L
M
N
O
P

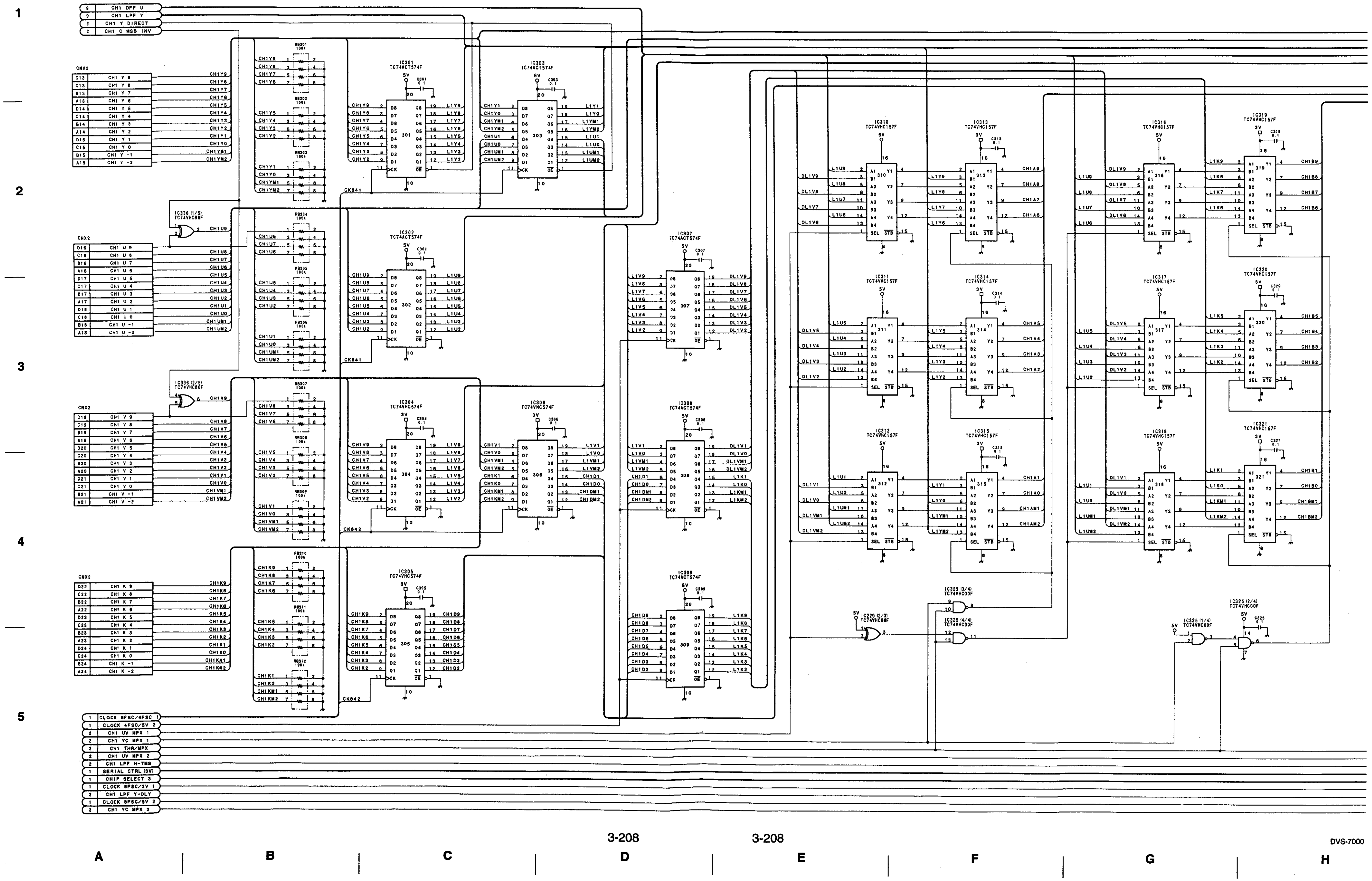
Encoder Board
ENC-34 (1/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

BKDS-7133 (SY) : S/N 10001 and Higher

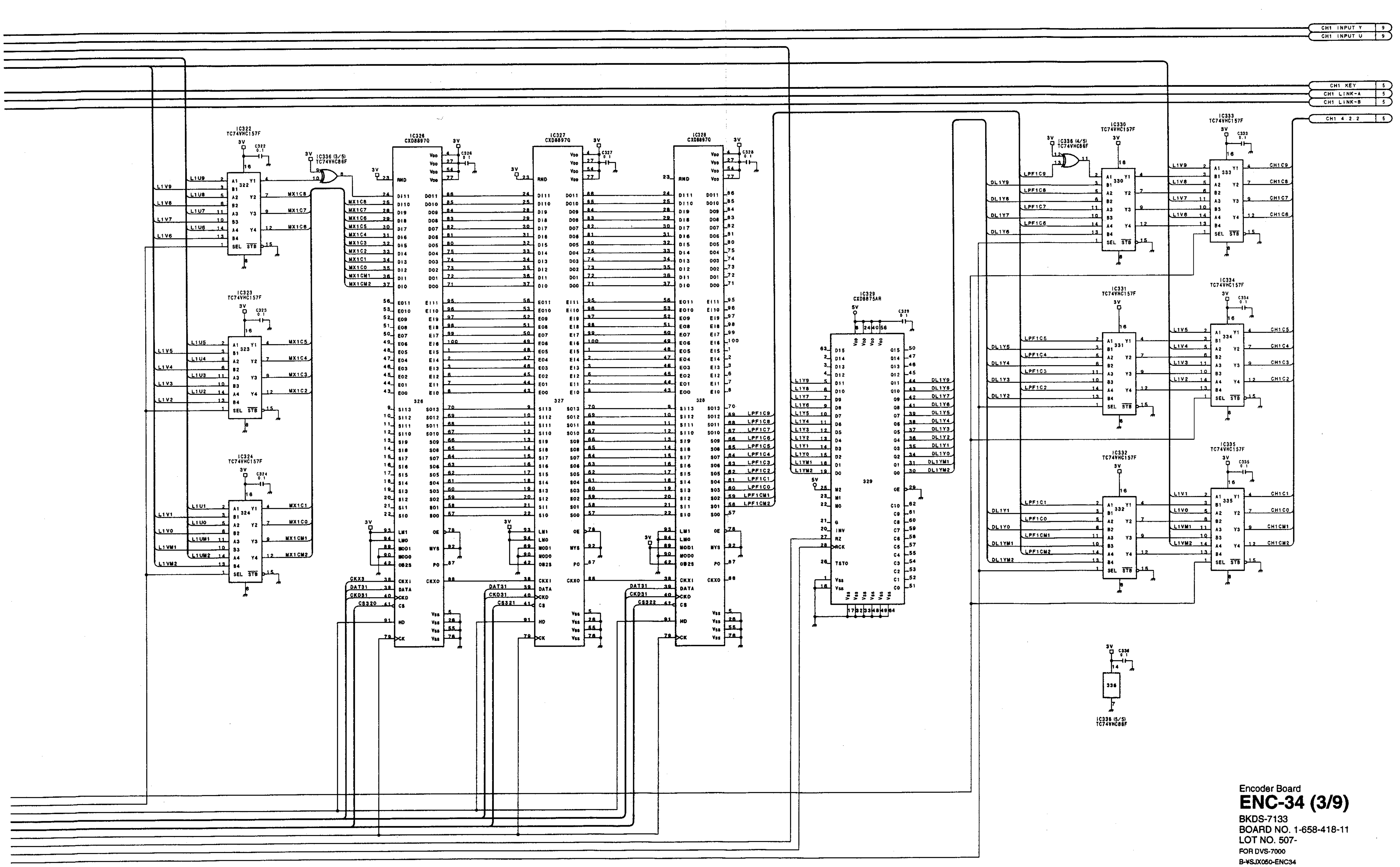

IC201 CXD8058Q
IC202 CXD8058Q
IC203 CXD8058Q
IC204 CXD8058Q
IC205 CXD8058Q
IC206 TC74VHC541F
IC207 (3/4) TC74VHC541F
IC207 (1/4) TC74VHC541F
IC207 (2/4) TC74VHC541F
IC208 (1/3) TC74VHC74F
IC208 (2/3) TC74VHC74F
IC208 (3/3) TC74VHC74F
IC209 (1/3) TC74VHC74F
IC209 (2/3) TC74VHC74F
IC209 (3/3) TC74VHC74F
IC210 TC74VHC86F
IC211 TC74VHC86F
IC212 TC74VHC86F
IC213 TC74VHC86F
IC214 TC74VHC00F
IC215 TC74VHC00F
IC216 TC74VHC00F
IC220 (1/3) TC74VHC86F
IC122 (4/6) SN74HC04ANS
IC122 (5/6) SN74HC04ANS
TP5 HZ
TP6 VDS
DELAY CONTROL 6
SAMPLE PULSE 3 5
SAMPLE PULSE 5 7
Y LPF H-TMG 9
CH1 LPF H-TMG 3
CH1 LPF Y-DLY 3
CH2 LPF H-TMG 4
CH2 LPF Y-DLY 4
SUB CARRIER 7
BUS CLOCK 8
ENCODE TYPE 7
Y/Y MPX 9
YC DMPX 7
CH1 Y LPF ON 9
CH1 Y DIRECT 3
CH2 Y LPF ON 9
CH2 Y DIRECT 4
CH1 C MSB INV 3
CH2 C MSB INV 4
CLOCK TYPE 1
CH1 THR/MPX 3
CH2 THR/MPX 4
CH1 YC MPX 1 3
CH2 YC MPX 1 4
CH1 UV MPX 2 3
CH2 UV MPX 2 4
CH1 YC MPX 2 3
CH2 YC MPX 2 4
CH1 UV MPX 1 3
CH2 UV MPX 1 4
1 TIMING PULSE
1 CLOCK 8FSC/5V 1
1 CLOCK 4FSC/5V 1
1 CHIP SELECT 1
1 SERIAL CTRL (5V)
1 4FSC PULSE 1
1 4FSC PULSE 2
1 2FSC PULSE
1
2
3
4
5
A
B
C
D
E
F
G
H

Encoder Board
ENC-34 (2/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

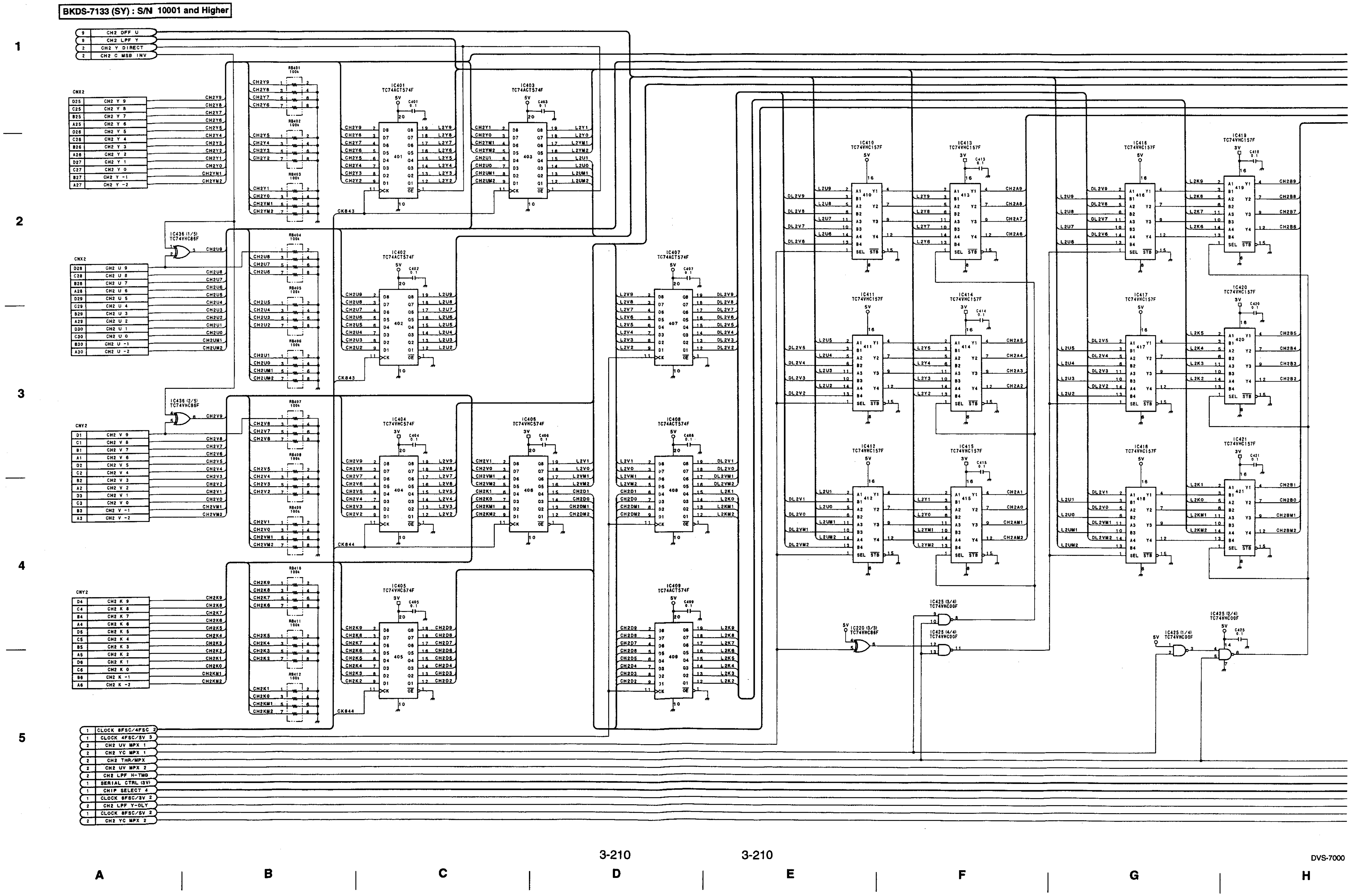
BKDS-7133 (SY) : S/N 10001 and Higher

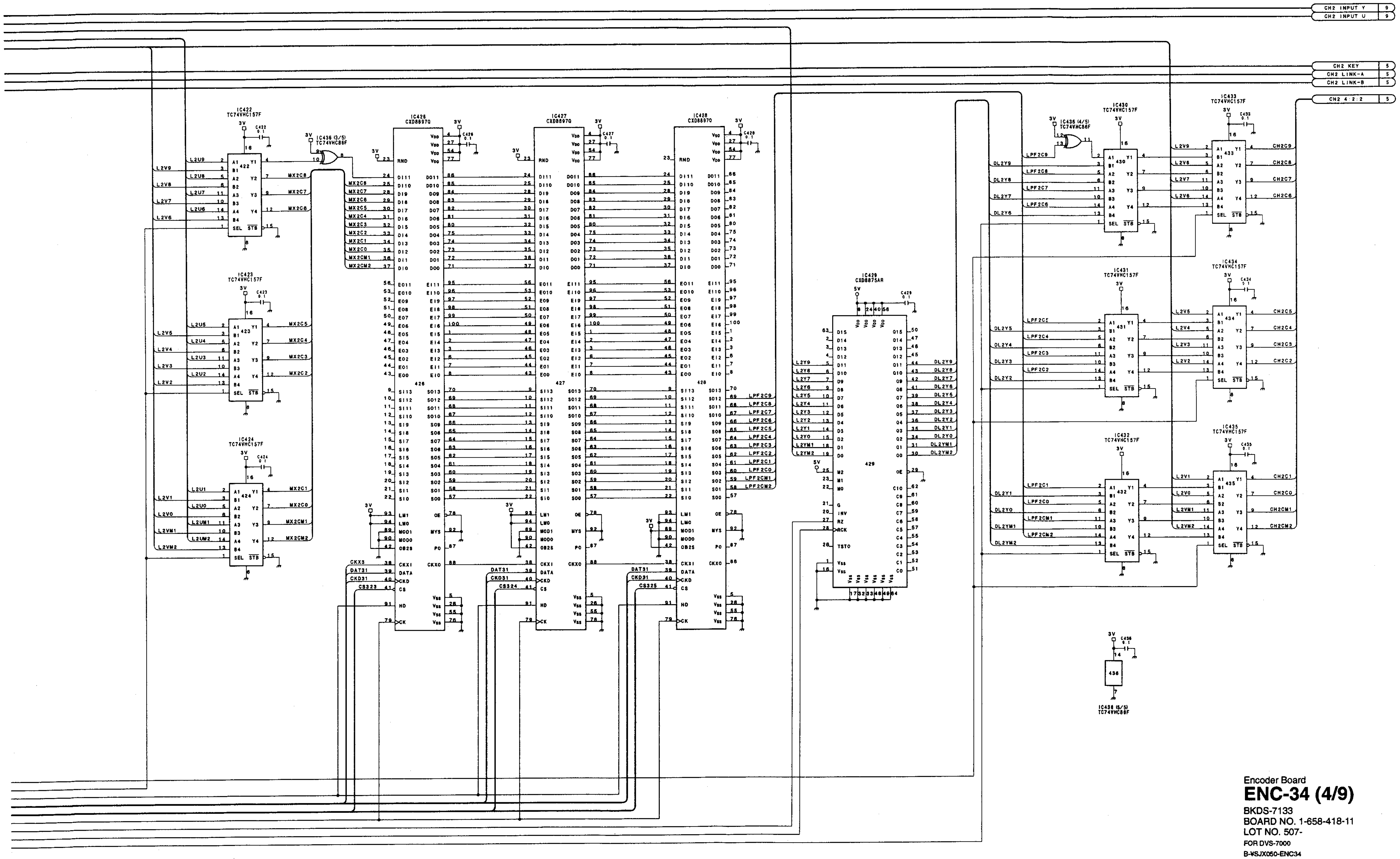

CH1 OFF U
CH1 LPF Y
CH1 Y DIRECT
CH1 C MSB INV
CNX2
IC301 TC74ACT574F
IC302 TC74ACT574F
IC303 TC74ACT574F
IC304 TC74VHC574F
IC305 TC74VHC574F
IC306 TC74VHC574F
IC307 TC74ACT574F
IC308 TC74ACT574F
IC309 TC74ACT574F
IC310 TC74VHC157F
IC311 TC74VHC157F
IC312 TC74VHC157F
IC313 TC74VHC157F
IC314 TC74VHC157F
IC315 TC74VHC157F
IC316 TC74VHC157F
IC317 TC74VHC157F
IC318 TC74VHC157F
IC319 TC74VHC157F
IC320 TC74VHC157F
IC321 TC74VHC157F
IC336 (1/5) TC74VHC86F
IC336 (2/5) TC74VHC86F
IC220 (2/3) TC74VHC86F
IC325 (1/4) TC74VHC00F
IC325 (2/4) TC74VHC00F
IC325 (3/4) TC74VHC00F
IC325 (4/4) TC74VHC00F
CK841
CK842
CLOCK 8FSC/4FSC
CLOCK 4FSC/5V
CH1 UV MPX
CH1 YC MPX
CH1 THR/MPX
CH1 UV MPX
CH1 LPF N-TMG
SERIAL CTRL (3V)
CHIP SELECT 3
CLOCK 8FSC/3V
CH1 LPF Y-DLY
CLOCK 8FSC/5V
CH1 YC MPX
1
2
3
4
5
A
B
C
D
E
F
G
H

ENC-34 (3/9) Encoder Board


CH1 INPUT Y
CH1 INPUT U
CH1 KEY
CH1 LINK-A
CH1 LINK-B
CH1 4 2 2
IC322 TC74VHC157F
IC323 TC74VHC157F
IC324 TC74VHC157F
IC336 (3/5) TC74VHC86F
IC326 CXD8897Q
IC327 CXD8897Q
IC328 CXD8897Q
IC329 CXD8875AR
IC330 TC74VHC157F
IC336 (4/5) TC74VHC86F
IC331 TC74VHC157F
IC332 TC74VHC157F
IC333 TC74VHC157F
IC334 TC74VHC157F
IC335 TC74VHC157F
IC336 (5/5) TC74VHC86F
3V
1
2
3
4
5

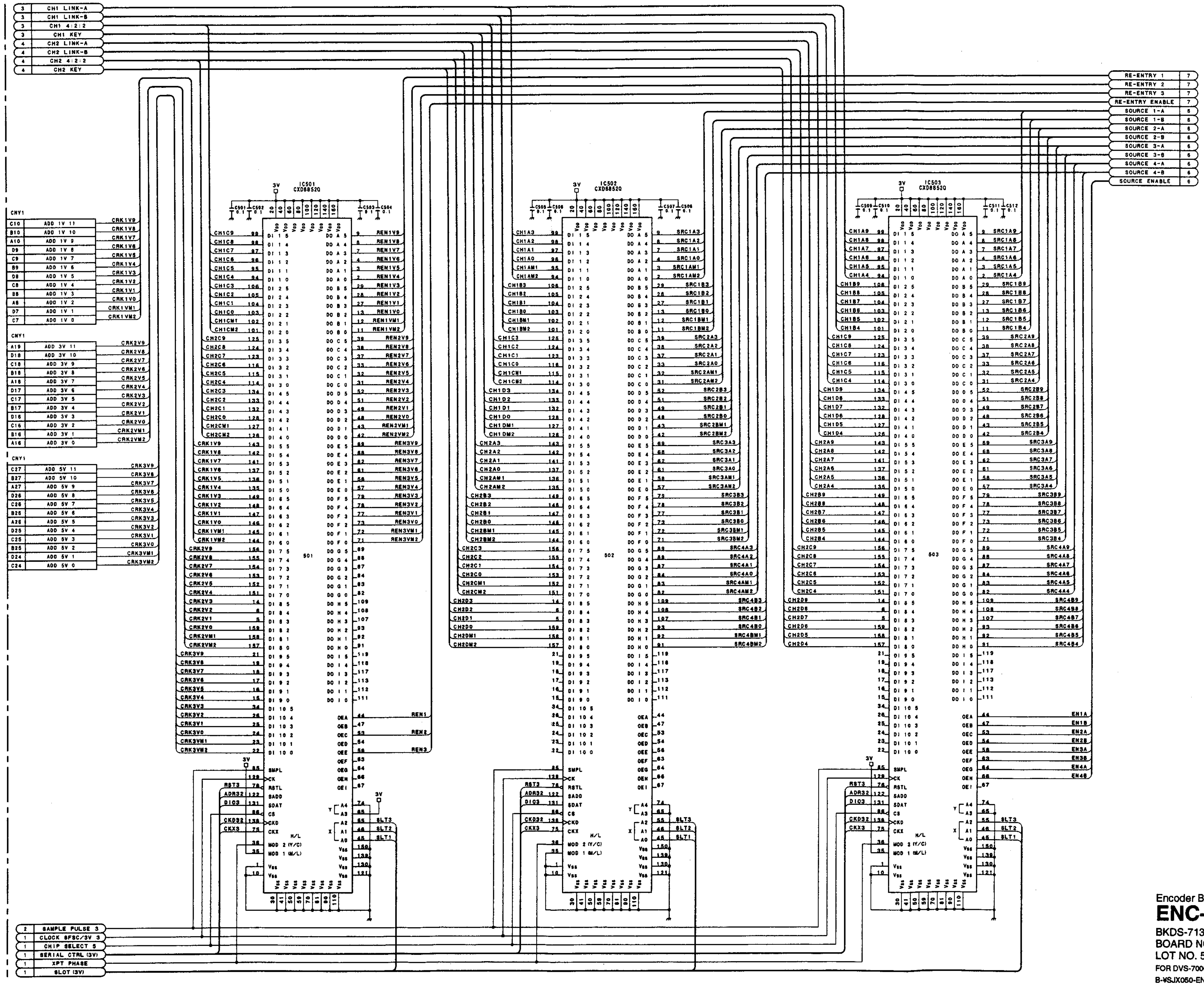
Encoder Board
ENC-34 (3/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34


BKDS-7133 (SY) : S/N 10001 and Higher
CH2 OFF U
CH2 LPF Y
CH2 Y DIRECT
CH2 C MSB INV
CNX2
CH2 Y 9
CH2 Y 8
CH2 Y 7
CH2 Y 6
CH2 Y 5
CH2 Y 4
CH2 Y 3
CH2 Y 2
CH2 Y 1
CH2 Y 0
CH2 Y -1
CH2 Y -2
CH2 U 9
CH2 U 0
CH2 U -1
CH2 U -2
CNY2
CH2 V 9
CH2 V 0
CH2 V -1
CH2 V -2
CH2 K 9
CH2 K 0
CH2 K -1
CH2 K -2
IC436 (1/5) TC74VHC86F
IC436 (2/5) TC74VHC86F
IC401 TC74ACT574F
IC402 TC74ACT574F
IC403 TC74ACT574F
IC404 TC74VHC574F
IC405 TC74VHC574F
IC406 TC74VHC574F
IC407 TC74ACT574F
IC408 TC74ACT574F
IC409 TC74ACT574F
IC410 TC74VHC157F
IC411 TC74VHC157F
IC412 TC74VHC157F
IC413 TC74VHC157F
IC414 TC74VHC157F
IC415 TC74VHC157F
IC416 TC74VHC157F
IC417 TC74VHC157F
IC418 TC74VHC157F
IC419 TC74VHC157F
IC420 TC74VHC157F
IC421 TC74VHC157F
IC425 (1/4) TC74VHC00F
IC425 (2/4) TC74VHC00F
IC425 (3/4) TC74VHC00F
IC425 (4/4) TC74VHC00F
IC320 (3/3) TC74VHC86F
RB401 100k
RB402 100k
RB403 100k
RB404 100k
RB405 100k
RB406 100k
RB407 100k
RB408 100k
RB409 100k
RB410 100k
RB411 100k
RB412 100k
CK843
CK844
5V
3V
CLOCK 8FSC/4FSC
CLOCK 4FSC/5V
CH2 UV MPX 1
CH2 YC MPX 1
CH2 THR/MPX
CH2 UV MPX 2
CH2 LPF H-TMG
SERIAL CTRL (3V)
CHIP SELECT 4
CLOCK 8FSC/3V
CH2 LPF Y-DLY
CLOCK 8FSC/5V
CH2 YC MPX 2
1
2
3
4
5
A
B
C
D
E
F
G
H


CH2 INPUT Y
CH2 INPUT U
CH2 KEY
CH2 LINK-A
CH2 LINK-B
CH2 4:2:2
IC422 TC74VHC157F
IC423 TC74VHC157F
IC424 TC74VHC157F
IC436 (3/5) TC74VHC86F
IC426 CXD8897Q
IC427 CXD8897Q
IC428 CXD8897Q
IC429 CXD8875AR
IC430 TC74VHC157F
IC431 TC74VHC157F
IC432 TC74VHC157F
IC433 TC74VHC157F
IC434 TC74VHC157F
IC435 TC74VHC157F
IC436 (4/5) TC74VHC86F
IC436 (5/5) TC74VHC86F
3V
5V
CKX3
DAT31
CKD31
CS323
CS324
CS325
MX2C8
MX2C7
MX2C6
MX2C5
MX2C4
MX2C3
MX2C2
MX2C1
MX2C0
MX2CM1
MX2CM2
LPF2C9
LPF2C8
LPF2C7
LPF2C6
LPF2C5
LPF2C4
LPF2C3
LPF2C2
LPF2C1
LPF2C0
LPF2CM1
LPF2CM2
DL2Y9
DL2Y8
DL2Y7
DL2Y6
DL2Y5
DL2Y4
DL2Y3
DL2Y2
DL2Y1
DL2Y0
DL2YM1
DL2YM2
CH2C9
CH2C8
CH2C7
CH2C6
CH2C5
CH2C4
CH2C3
CH2C2
CH2C1
CH2C0
CH2CM1
CH2CM2

Encoder Board
ENC-34 (4/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

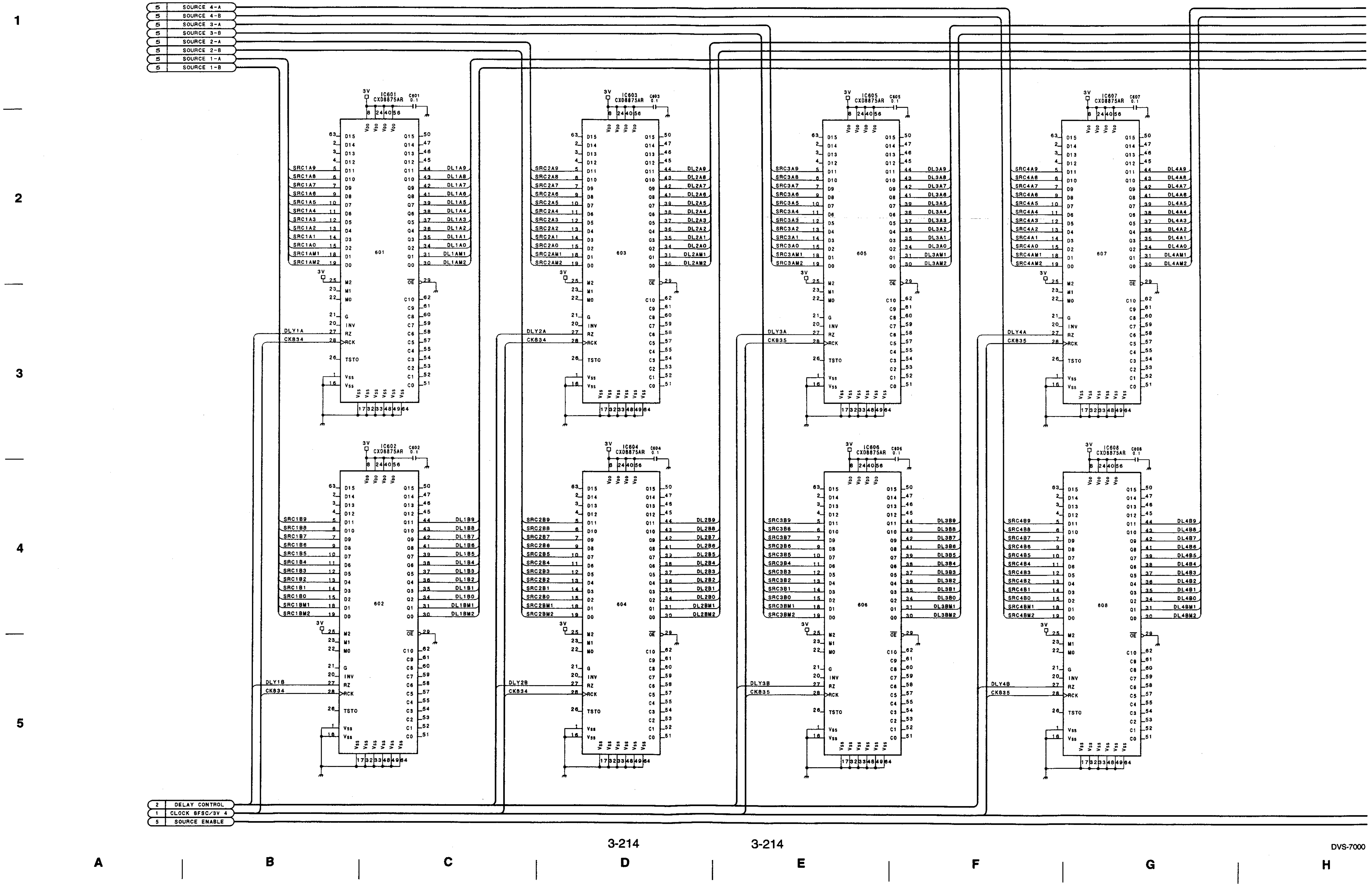
BKDS-7133 (SY) : S/N 10001 and Higher


CH1 LINK-A
CH1 LINK-B
CH1 4:2:2
CH1 KEY
CH2 LINK-A
CH2 LINK-B
CH2 4:2:2
CH2 KEY
CN71
ADD 1V 11
ADD 1V 10
ADD 3V 11
ADD 5V 11
IC501 CXD8852Q
IC502 CXD8852Q
IC503 CXD8852Q
3V
501
502
503
RE-ENTRY 1
RE-ENTRY 2
RE-ENTRY 3
RE-ENTRY ENABLE
SOURCE 1-A
SOURCE 1-B
SOURCE 2-A
SOURCE 2-B
SOURCE 3-A
SOURCE 3-B
SOURCE 4-A
SOURCE 4-B
SOURCE ENABLE
SAMPLE PULSE
CLOCK 8FSC/3V
CHIP SELECT
SERIAL CTRL (3V)
XPT PHASE
SLOT (3V)

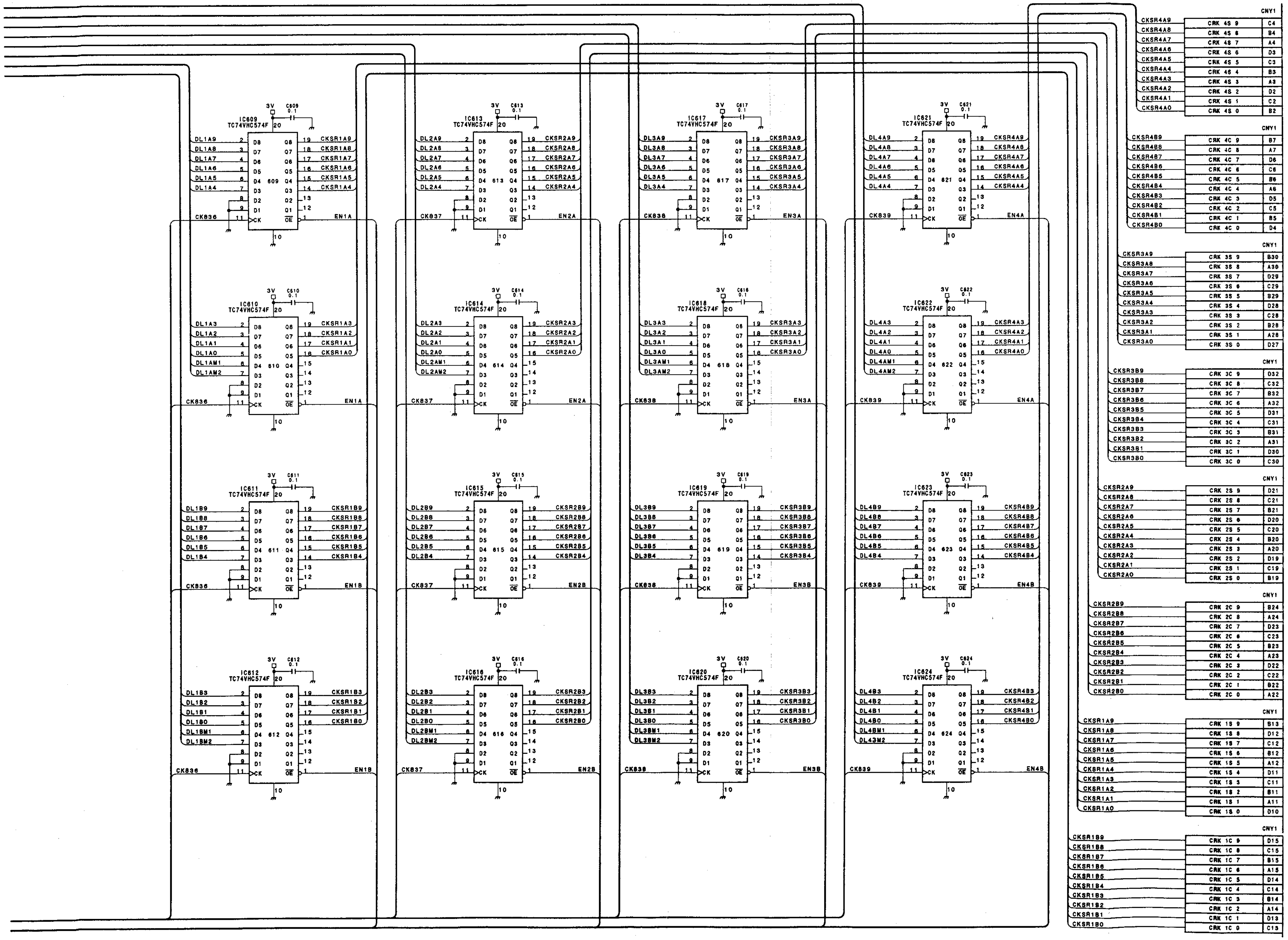
Encoder Board
ENC-34 (5/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

ENC-34 (6/9) Encoder Board

BKDS-7133 (SY) : S/N 10001 and Higher

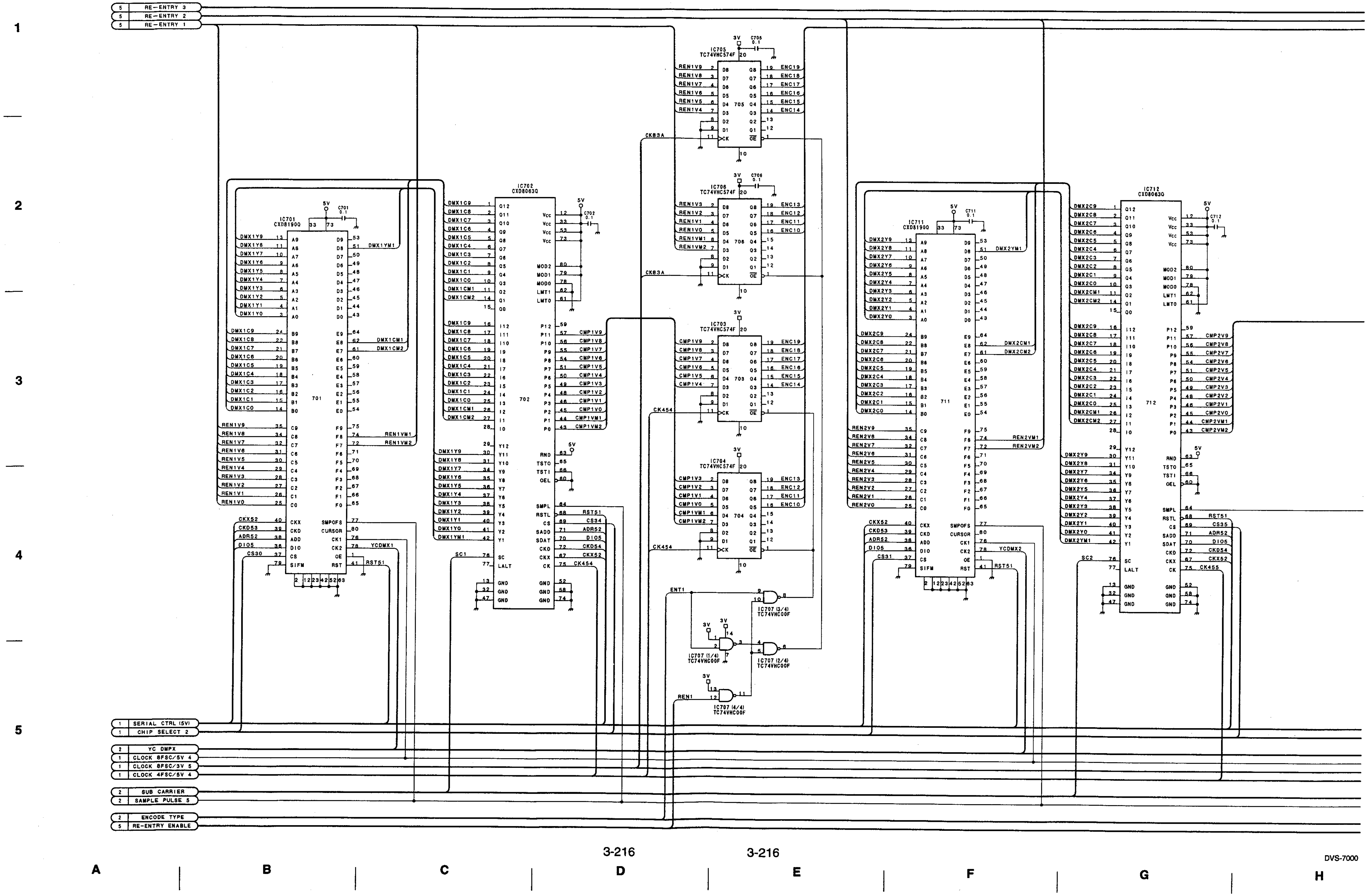

5 SOURCE 4-A
5 SOURCE 4-B
5 SOURCE 3-A
5 SOURCE 3-B
5 SOURCE 2-A
5 SOURCE 2-B
5 SOURCE 1-A
5 SOURCE 1-B
IC601 CXD8875AR
IC602 CXD8875AR
IC603 CXD8875AR
IC604 CXD8875AR
IC605 CXD8875AR
IC606 CXD8875AR
IC607 CXD8875AR
IC608 CXD8875AR
C601 0.1
C602 0.1
C603 0.1
C604 0.1
C605 0.1
C606 0.1
C607 0.1
C608 0.1
3V
DLY1A
CKB34
DLY1B
DLY2A
DLY2B
DLY3A
CKB35
DLY3B
DLY4A
DLY4B
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
Q15 Q14 Q13 Q12 Q11 Q10 Q9 Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0
M2 M1 M0 G INV RZ RCK TSTO
C10 C9 C8 C7 C6 C5 C4 C3 C2 C1 C0
OE
VDD
VSS
2 DELAY CONTROL
1 CLOCK 8FSC/3V 4
5 SOURCE ENABLE
1
2
3
4
5
A
B
C
D
E
F
G
H

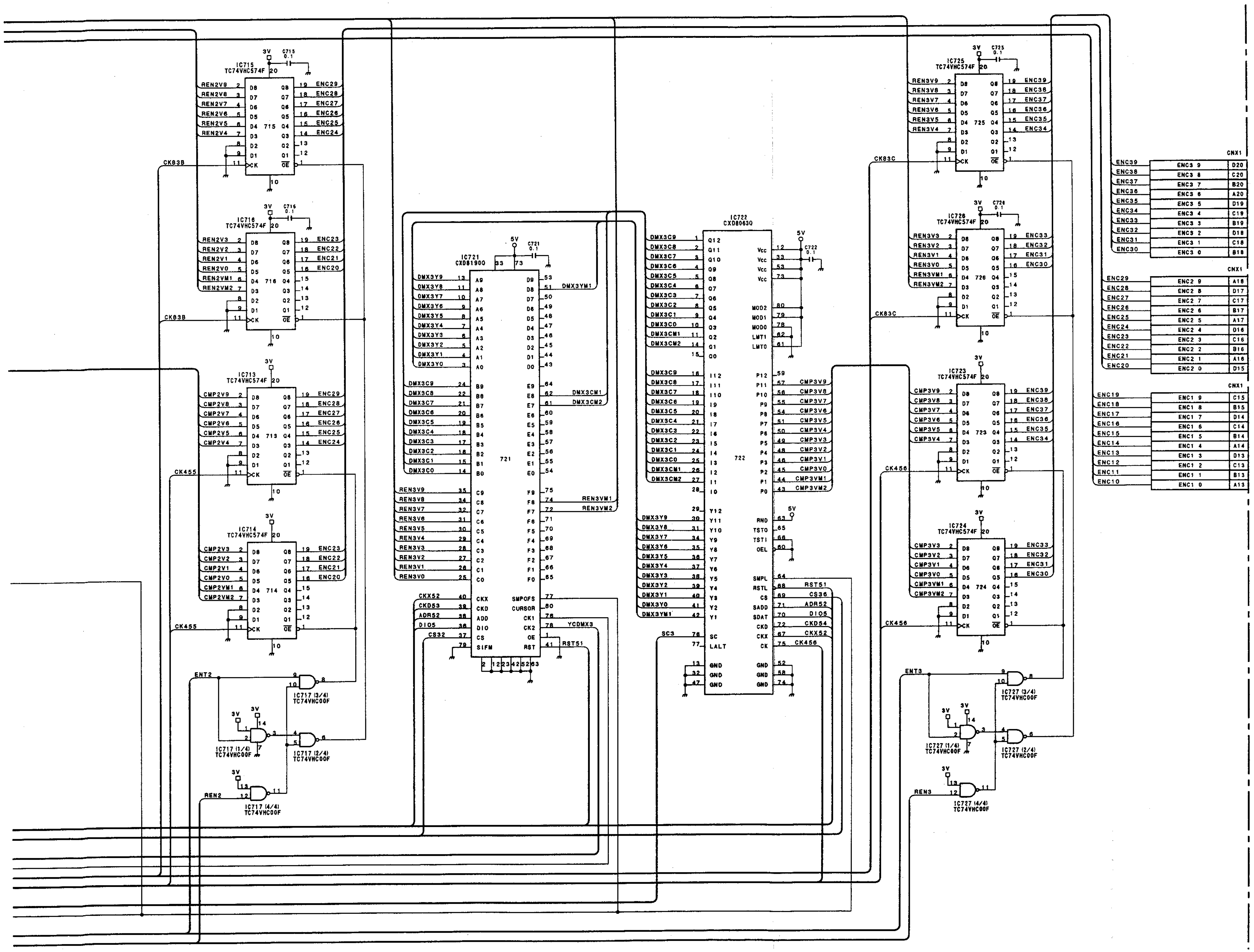
3-214


IC609 TC74VHC574F
IC610 TC74VHC574F
IC611 TC74VHC574F
IC612 TC74VHC574F
IC613 TC74VHC574F
IC614 TC74VHC574F
IC615 TC74VHC574F
IC616 TC74VHC574F
IC617 TC74VHC574F
IC618 TC74VHC574F
IC619 TC74VHC574F
IC620 TC74VHC574F
IC621 TC74VHC574F
IC622 TC74VHC574F
IC623 TC74VHC574F
IC624 TC74VHC574F
3V
C609 0.1
C610 0.1
C611 0.1
C612 0.1
C613 0.1
C614 0.1
C615 0.1
C616 0.1
C617 0.1
C618 0.1
C619 0.1
C620 0.1
C621 0.1
C622 0.1
C623 0.1
C624 0.1
CK836
CK837
CK838
CK839
EN1A
EN1B
EN2A
EN2B
EN3A
EN3B
EN4A
EN4B
CNY1

Encoder Board
ENC-34 (6/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

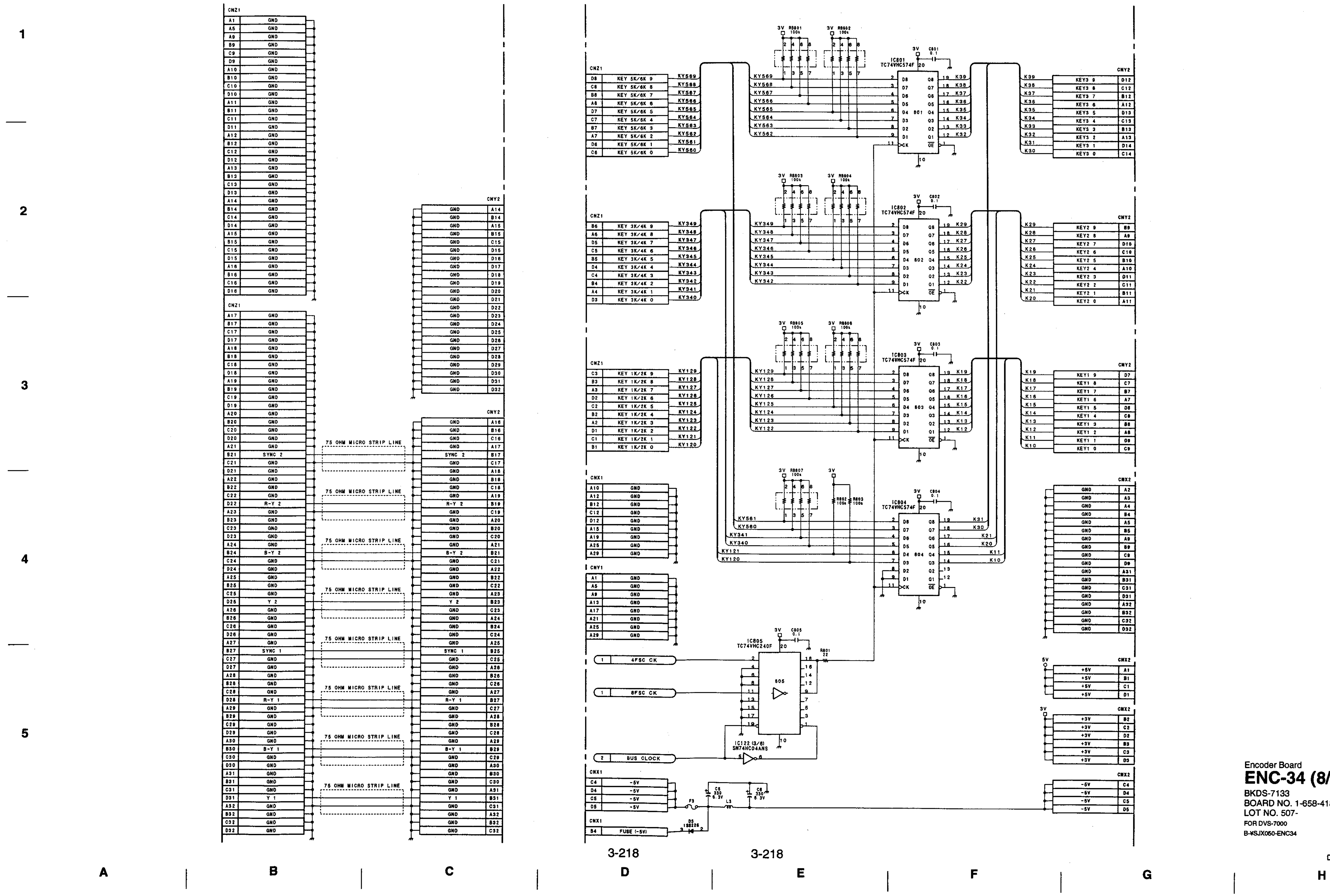
BKDS-7133 (SY) : S/N 10001 and Higher


RE-ENTRY 3
RE-ENTRY 2
RE-ENTRY 1
IC701 CXD8190Q
IC702 CXD8063Q
IC703 TC74VHC574F
IC704 TC74VHC574F
IC705 TC74VHC574F
IC706 TC74VHC574F
IC707 (1/4) TC74VHC00F
IC707 (2/4) TC74VHC00F
IC707 (3/4) TC74VHC00F
IC707 (4/4) TC74VHC00F
IC711 CXD8190Q
IC712 CXD8063Q
C701 0.1
C702 0.1
C705 0.1
C706 0.1
C711 0.1
C712 0.1
5V
3V
CK83A
CK454
ENT1
REN1
YCDMX1
YCDMX2
RST51
SERIAL CTRL (5V)
CHIP SELECT 2
YC DMPX
CLOCK 8FSC/5V 4
CLOCK 8FSC/3V 5
CLOCK 4FSC/5V 4
SUB CARRIER
SAMPLE PULSE 5
ENCODE TYPE
RE-ENTRY ENABLE
1
2
3
4
5
A
B
C
D
E
F
G
H


IC715 TC74VHC574F
IC716 TC74VHC574F
IC713 TC74VHC574F
IC714 TC74VHC574F
IC717 (1/4) TC74VHC00F
IC717 (2/4) TC74VHC00F
IC717 (3/4) TC74VHC00F
IC717 (4/4) TC74VHC00F
IC721 CXD81900
IC722 CXD80630
IC725 TC74VHC574F
IC726 TC74VHC574F
IC723 TC74VHC574F
IC724 TC74VHC574F
IC727 (1/4) TC74VHC00F
IC727 (2/4) TC74VHC00F
IC727 (3/4) TC74VHC00F
IC727 (4/4) TC74VHC00F
CNX1
CK83B
CK455
CK83C
CK456
ENT2
ENT3
REN2
REN3
3V
5V

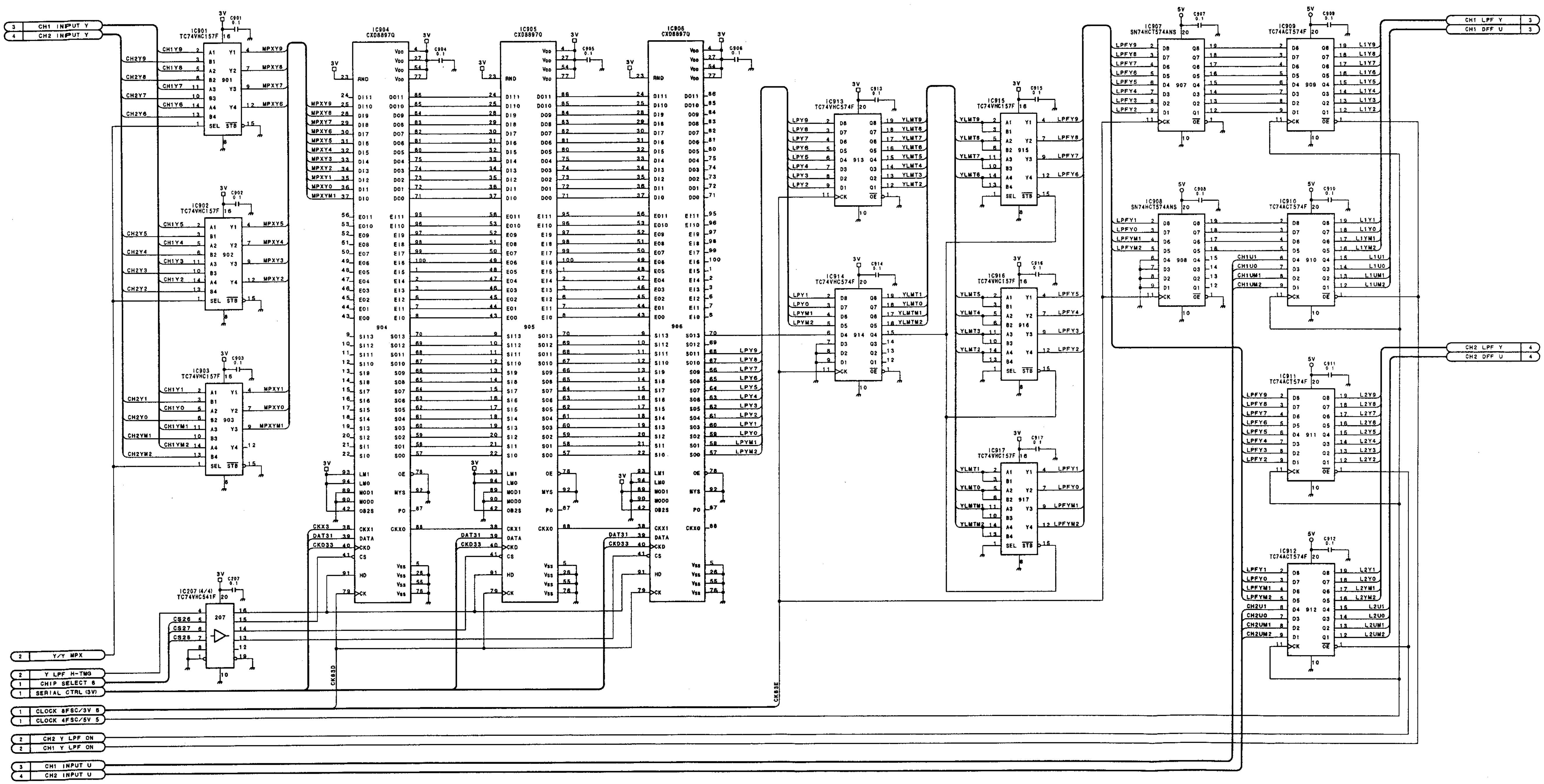
Encoder Board
ENC-34 (7/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

BKDS-7133 (SY) : S/N 10001 and Higher


1
2
3
4
5
A
B
C
D
E
F
G
H
CNZ1
CNY2
CNX1
CNY1
CNX2
GND
SYNC 2
R-Y 2
B-Y 2
Y 2
SYNC 1
R-Y 1
B-Y 1
Y 1
75 OHM MICRO STRIP LINE
KEY 5K/6K 9
KEY 3K/4K 9
KEY 1K/2K 9
KEY3 9
KEY2 9
KEY1 9
IC801 TC74VHC574F
IC802 TC74VHC574F
IC803 TC74VHC574F
IC804 TC74VHC574F
IC805 TC74VHC240F
IC122 (3/6) SN74HC04ANS
3V
RB801 100k
RB802 100k
RB803 100k
RB804 100k
RB805 100k
RB806 100k
RB807 100k
R802 100k
R803 100k
R801 22
C801 0.1
C802 0.1
C803 0.1
C804 0.1
C805 0.1
4FSC CK
8FSC CK
BUS CLOCK
-5V
+5V
+3V
5V
FUSE (-5V)
F3
L3
C5 330 6.3V
C6 330 6.3V
D3 1SS226

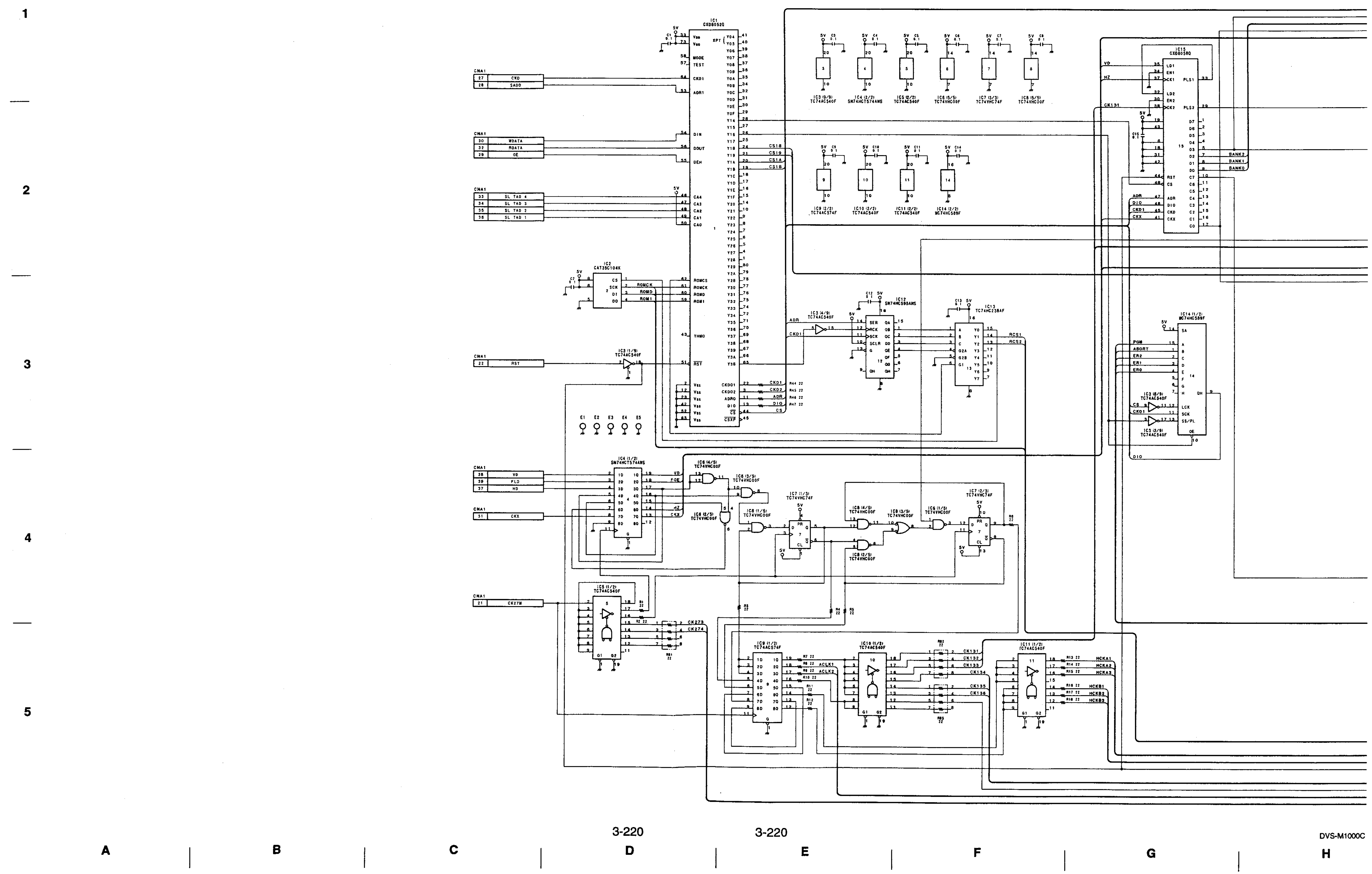
Encoder Board
ENC-34 (8/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

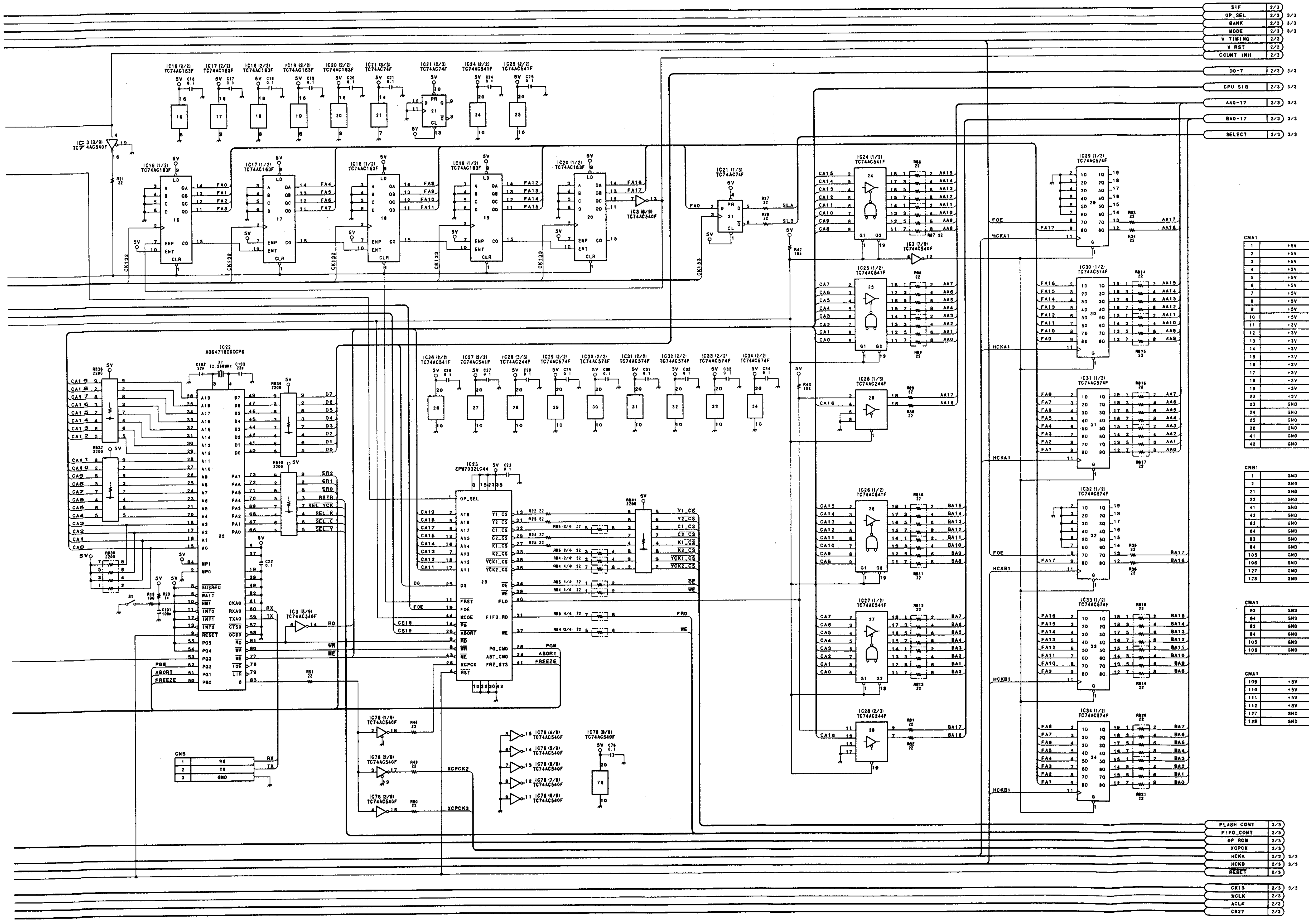
BKDS-7133 (S-Y) : S/N 10001 and Higher


IC901 TC74VHC157F
IC902 TC74VHC157F
IC903 TC74VHC157F
IC904 CXD8897Q
IC905 CXD8897Q
IC906 CXD8897Q
IC207 (4/4) TC74VHC541F
IC913 TC74VHC574F
IC914 TC74VHC574F
IC915 TC74VHC157F
IC916 TC74VHC157F
IC917 TC74VHC157F
IC907 SN74HCT574ANS
IC908 SN74HCT574ANS
IC909 TC74ACT574F
IC910 TC74ACT574F
IC911 TC74ACT574F
IC912 TC74ACT574F
CH1 INPUT Y
CH2 INPUT Y
Y/Y MPX
Y LPF H-TMG
CHIP SELECT 6
SERIAL CTRL (3V)
CLOCK 8FSC/3V 6
CLOCK 4FSC/5V 5
CH2 Y LPF ON
CH1 Y LPF ON
CH1 INPUT U
CH2 INPUT U
CH1 LPF Y
CH1 DFF U
CH2 LPF Y
CH2 DFF U
CKX3D
CKX3E
3V
5V

Encoder Board
ENC-34 (9/9)
BKDS-7133
BOARD NO. 1-658-418-11
LOT NO. 507-
FOR DVS-7000
B-¥SJX050-ENC34

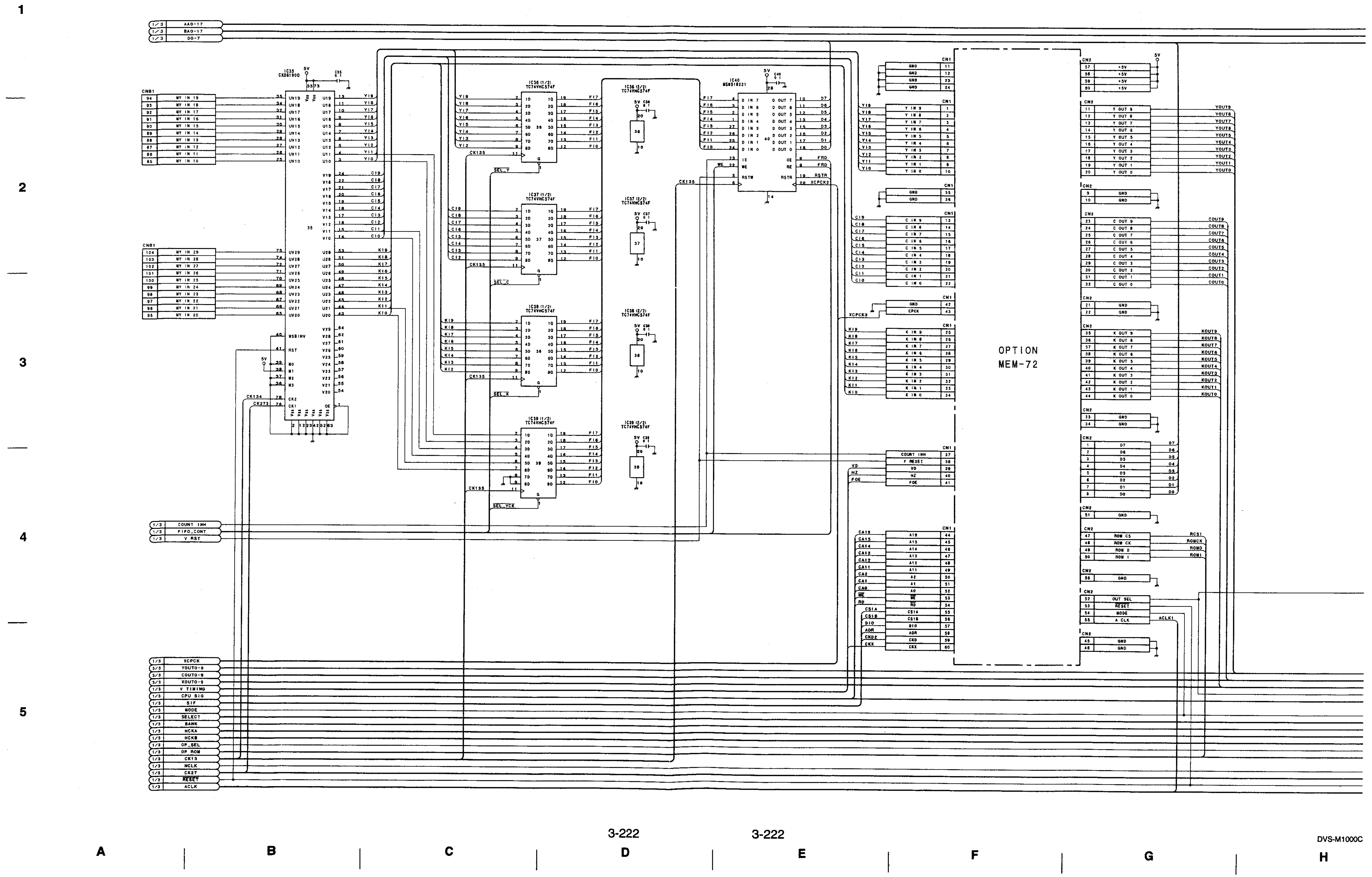
BKDS-M1441 (SY) : S/N 10001 and Higher

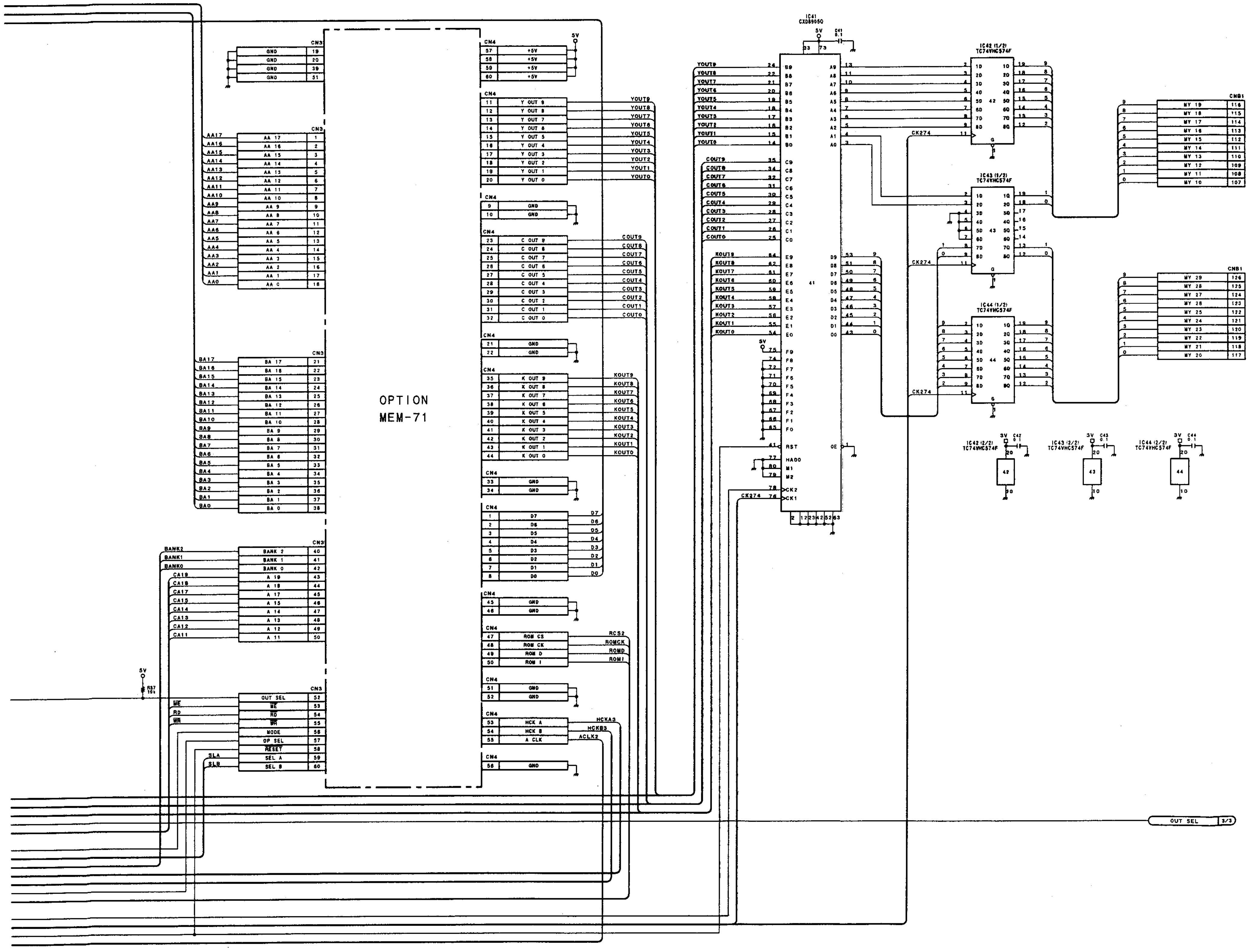

1
2
3
4
5
A
B
C
D
E
F
G
H
IC1 CXD8052Q
IC2 CAT35C104K
IC3 (1/9) TC74AC540F
IC3 (4/9) TC74AC540F
IC3 (8/9) TC74AC540F
IC3 (2/9) TC74AC540F
IC4 (1/2) SN74HCT574ANS
IC5 (1/2) TC74AC540F
IC6 (4/5) TC74VHC00F
IC6 (3/5) TC74VHC00F
IC6 (2/5) TC74VHC00F
IC6 (1/5) TC74VHC00F
IC7 (1/3) TC74VHC74F
IC7 (2/3) TC74VHC74F
IC8 (4/5) TC74VHC00F
IC8 (3/5) TC74VHC00F
IC8 (2/5) TC74VHC00F
IC9 (1/2) TC74AC574F
IC10 (1/2) TC74AC540F
IC11 (1/2) TC74AC540F
IC12 SN74HC595ANS
IC13 TC74HC238AF
IC14 (1/2) MC74HC589F
IC15 CXD8058Q
CNA1
CKD
SADD
WDATA
RDATA
OE
SL TAD 4
SL TAD 3
SL TAD 2
SL TAD 1
RST
VD
FLD
HD
CKX
CK27M
E1 E2 E3 E4 E5
CS18
CS19
CS1A
CS1B
ROMCK
ROMD
ROM1
CKD1
CKD2
ADR
DIO
CS
CKD1
RCS1
RCS2
PGM
ABORT
ER2
ER1
ER0
BANK2
BANK1
BANK0
CK131
CK132
CK133
CK134
CK135
CK136
ACLK1
ACLK2
HCKA1
HCKA2
HCKA3
HCKB1
HCKB2
HCKB3
CK273
CK274
5V


SIF
OP_SEL
BANK
MODE
V TIMING
V RST
COUNT INH
D0-7
CPU SIG
AA0-17
BA0-17
SELECT
FLASH CONT
FIFO_CONT
OP ROM
XCPCK
HCKA
HCKB
RESET
CK13
NCLK
ACLK
CK27
TC74AC163F
TC74AC74F
TC74AC541F
TC74AC574F
TC74AC244F
TC74AC540F
EPM7032LC44
CNA1
CNB1
CN5
RX
TX
GND

Frame Memory Board
FM-41 (1/3)
BKDS-M1441
BOARD NO. 1-660-513-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-FM41

BKDS-M1441 (SY) : S/N 10001 and Higher

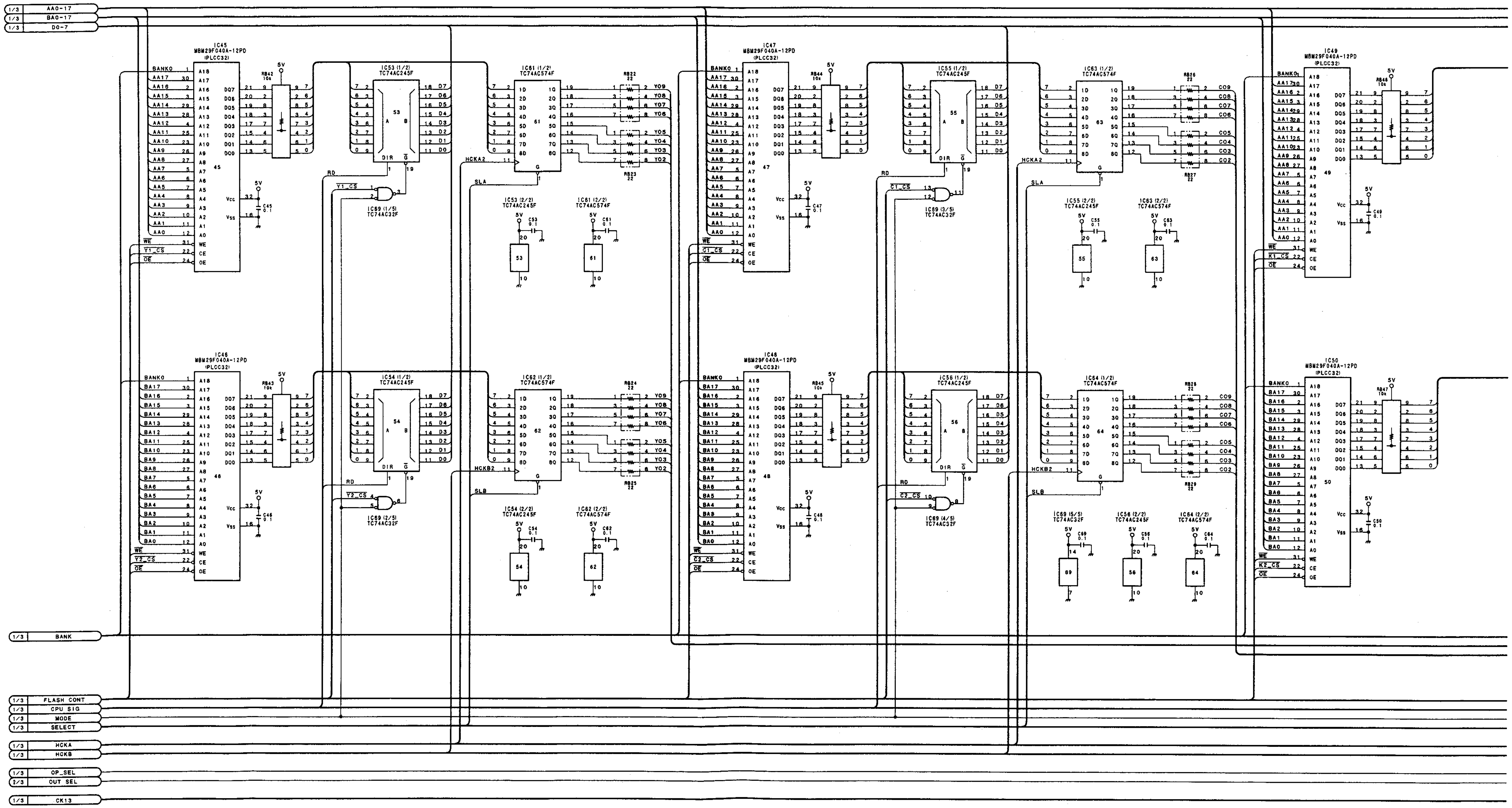

1
2
3
4
5
A
B
C
D
E
F
G
H
CNB1
IC35 CXD8190Q
IC36 (1/2) TC74VHC574F
IC37 (1/2) TC74VHC574F
IC38 (1/2) TC74VHC574F
IC39 (1/2) TC74VHC574F
IC36 (2/2) TC74VHC574F
IC37 (2/2) TC74VHC574F
IC38 (2/2) TC74VHC574F
IC39 (2/2) TC74VHC574F
IC40 MSM518221
5V
CN1
CN2
OPTION
MEM-72
AA0-17
BA0-17
D0-7
COUNT INH
FIFO_CONT
V RST
XCPCK
YOUT0-9
COUT0-9
KOUT0-9
V TIMING
CPU SIG
SIF
MODE
SELECT
BANK
HCKA
HCKB
OP_SEL
OP ROM
CK13
MCLK
CK27
RESET
ACLK
SEL_Y
SEL_C
SEL_K
SEL_VCK
CK135
CK134
CK273


OPTION
MEM-71
CN3
CN4
IC41
CXD8905Q
IC42 (1/2)
TC74VHC574F
IC43 (1/2)
TC74VHC574F
IC44 (1/2)
TC74VHC574F
IC42 (2/2)
IC43 (2/2)
IC44 (2/2)
CNB1
5V
R37
10k
CK274
OUT SEL
3/3
YOUT9
COUT9
KOUT9
HCKA3
HCKB3
ACLK2
RCS2
ROMCK
ROMD
ROMI
BANK2
BANK1
BANK0
SLA
SLB

1
2
3
4
5

Frame Memory Board
FM-41 (2/3)
BKDS-M1441
BOARD NO. 1-660-513-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-FM41

BKDS-M1441 (SY) : S/N 10001 and Higher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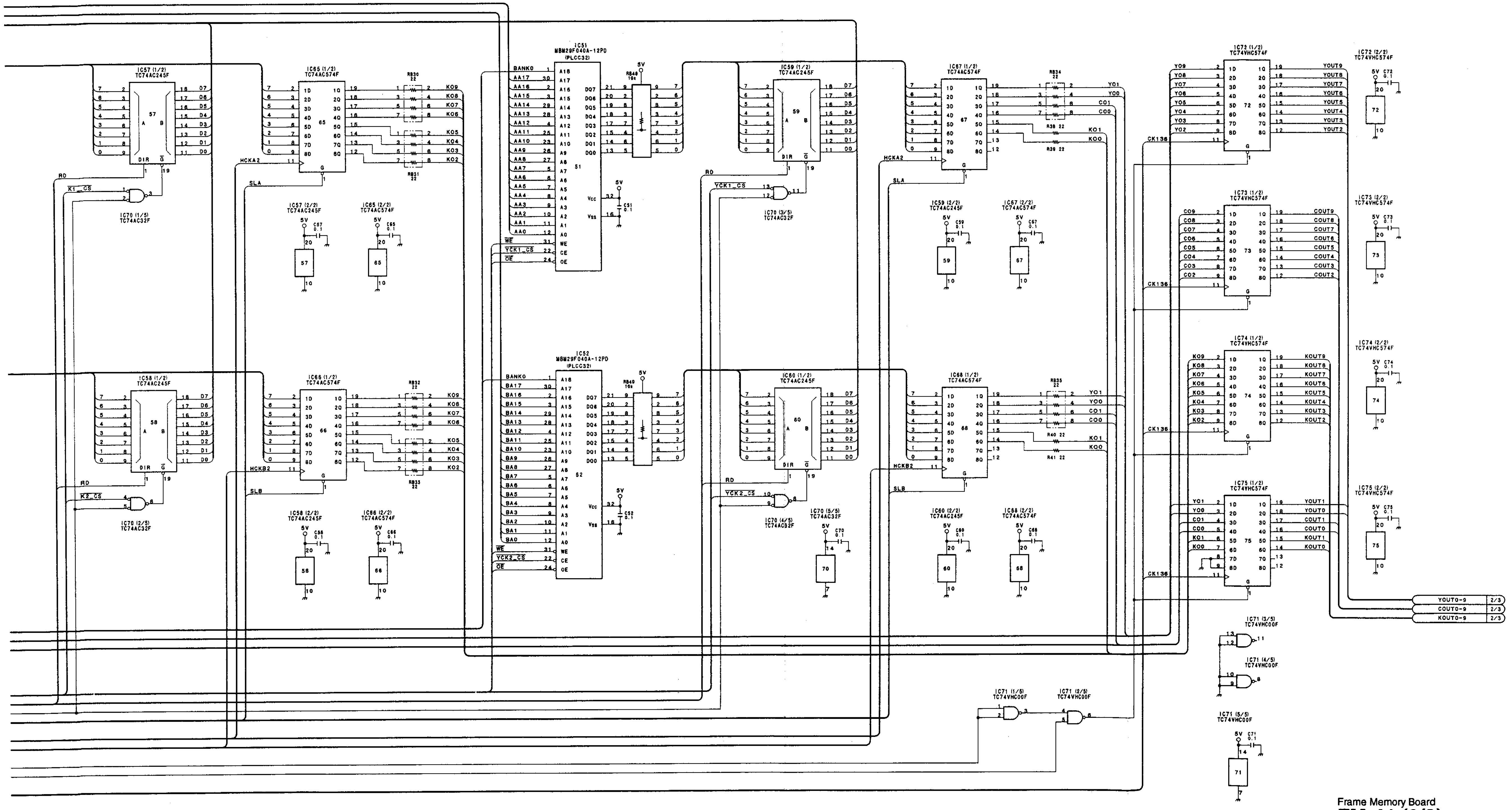
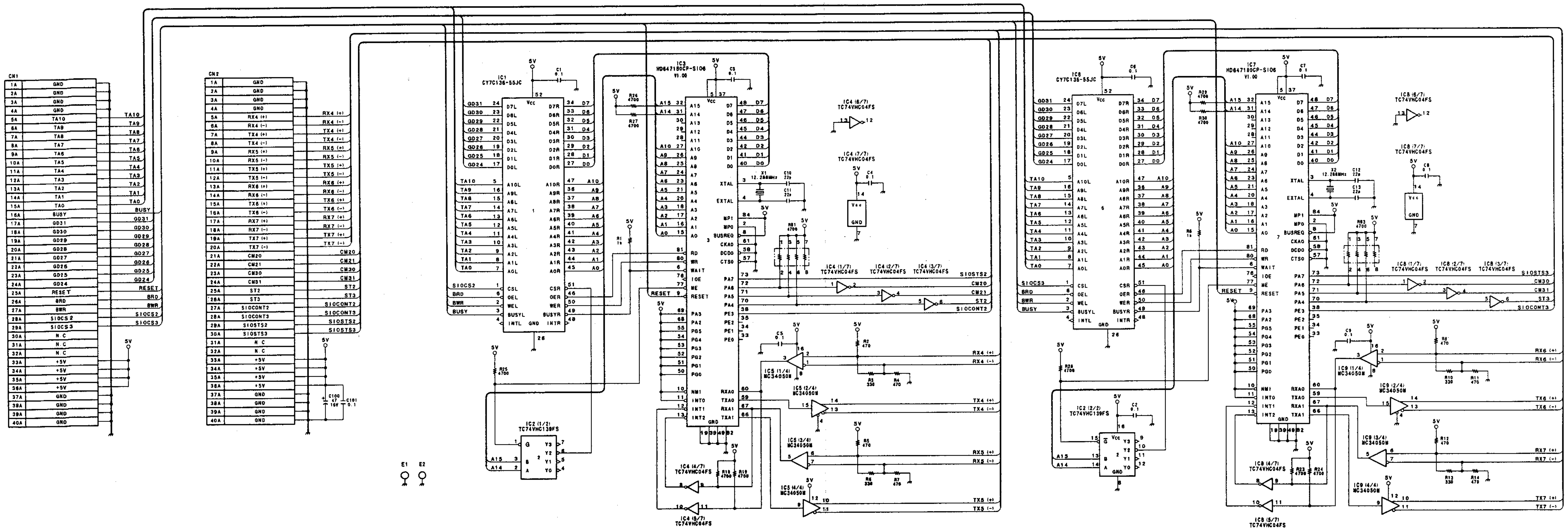
3
4
5
AA0-17
BA0-17
D0-7
BANK
FLASH CONT
CPU SIG
MODE
SELECT
HCKA
HCKB
OP_SEL
OUT SEL
CK13
IC45 MBM29F040A-12PD (PLCC32)
IC46 MBM29F040A-12PD (PLCC32)
IC47 MBM29F040A-12PD (PLCC32)
IC48 MBM29F040A-12PD (PLCC32)
IC49 MBM29F040A-12PD (PLCC32)
IC50 MBM29F040A-12PD (PLCC32)
IC53 (1/2) TC74AC245F
IC54 (1/2) TC74AC245F
IC55 (1/2) TC74AC245F
IC56 (1/2) TC74AC245F
IC61 (1/2) TC74AC574F
IC62 (1/2) TC74AC574F
IC63 (1/2) TC74AC574F
IC64 (1/2) TC74AC574F
IC69 (1/5) TC74AC32F
IC69 (2/5) TC74AC32F
IC69 (3/5) TC74AC32F
IC69 (4/5) TC74AC32F
IC69 (5/5) TC74AC32F
IC53 (2/2) TC74AC245F
IC61 (2/2) TC74AC574F
IC54 (2/2) TC74AC245F
IC62 (2/2) TC74AC574F
IC55 (2/2) TC74AC245F
IC63 (2/2) TC74AC574F
IC56 (2/2) TC74AC245F
IC64 (2/2) TC74AC574F
RB42 10k
RB43 10k
RB44 10k
RB45 10k
RB46 10k
RB47 10k
RB22 22
RB23 22
RB24 22
RB25 22
RB26 22
RB27 22
RB28 22
RB29 22
5V
Y1_CS
Y2_CS
C1_CS
C2_CS
K1_CS
K2_CS
WE
OE
RD
SLA
SLB
HCKA2
HCKB2
YO9 YO8 YO7 YO6 YO5 YO4 YO3 YO2
CO9 CO8 CO7 CO6 CO5 CO4 CO3 CO2

A | B | C | D | E | F | G | H


IC51 MBM29F040A-12PD (PLCC32)
IC52 MBM29F040A-12PD (PLCC32)
IC57 (1/2) TC74AC245F
IC58 (1/2) TC74AC245F
IC59 (1/2) TC74AC245F
IC60 (1/2) TC74AC245F
IC65 (1/2) TC74AC574F
IC66 (1/2) TC74AC574F
IC67 (1/2) TC74AC574F
IC68 (1/2) TC74AC574F
IC70 (1/5) TC74AC32F
IC70 (2/5) TC74AC32F
IC70 (3/5) TC74AC32F
IC70 (4/5) TC74AC32F
IC70 (5/5) TC74AC32F
IC71 (1/5) TC74VHC00F
IC71 (2/5) TC74VHC00F
IC71 (3/5) TC74VHC00F
IC71 (4/5) TC74VHC00F
IC71 (5/5) TC74VHC00F
IC72 (1/2) TC74VHC574F
IC73 (1/2) TC74VHC574F
IC74 (1/2) TC74VHC574F
IC75 (1/2) TC74VHC574F
RD
K1_CS
K2_CS
VCK1_CS
VCK2_CS
HCKA2
HCKB2
SLA
SLB
BANK0
WE
OE
CK136
5V
YOUT0-9 2/3
COUT0-9 2/3
KOUT0-9 2/3

Frame Memory Board
FM-41 (3/3)
BKDS-M1441
BOARD NO. 1-660-513-11
LOT NO. 511-
FOR DVS-M1000C
B-¥SJX053-FM41

BKDS-7001 (SY) : S/N 10001 and Higher


CN1
CN2
IC1 CY7C136-55JC
IC3 HD647180CP-S106 V1.00
IC6 CY7C136-55JC
IC7 HD647180CP-S106 V1.00
IC2 (1/2) TC74VHC139FS
IC2 (2/2) TC74VHC139FS
IC4 TC74VHC04FS
IC5 MC34050M
IC8 TC74VHC04FS
IC9 MC34050M
X1 12.288MHz
X2 12.288MHz
E1
E2
5V
RX4 (+)
RX4 (-)
TX4 (+)
TX4 (-)
RX5 (+)
RX5 (-)
TX5 (+)
TX5 (-)
RX6 (+)
RX6 (-)
TX6 (+)
TX6 (-)
RX7 (+)
RX7 (-)
TX7 (+)
TX7 (-)
CM20
CM21
CM30
CM31
ST2
ST3
SIOCONT2
SIOCONT3
SIOSTS2
SIOSTS3
SIOCS2
SIOCS3
BUSY
BRD
BWR
RESET

1
2
3
4
5

Control Port Expansion Board
IF-523
BKDS-7001
BOARD NO. 1-658-282-11
LOT NO. 505-
FOR BKDS-7011/7012/7021/7022/7023
BKDS-70xxR/70xxLR
B-¥SJXA076-IF523

BKDS-7011/7012/7021/7022/7023
BKDS-7011R/7012R/7021R/7022R/7023R
BKDS-7011LR/7012LR/7021LR/7022LR/7023LR

A | B | C | D | E | F | G | H

BKDS-M1040 (SY) : S/N 10001 and Higher

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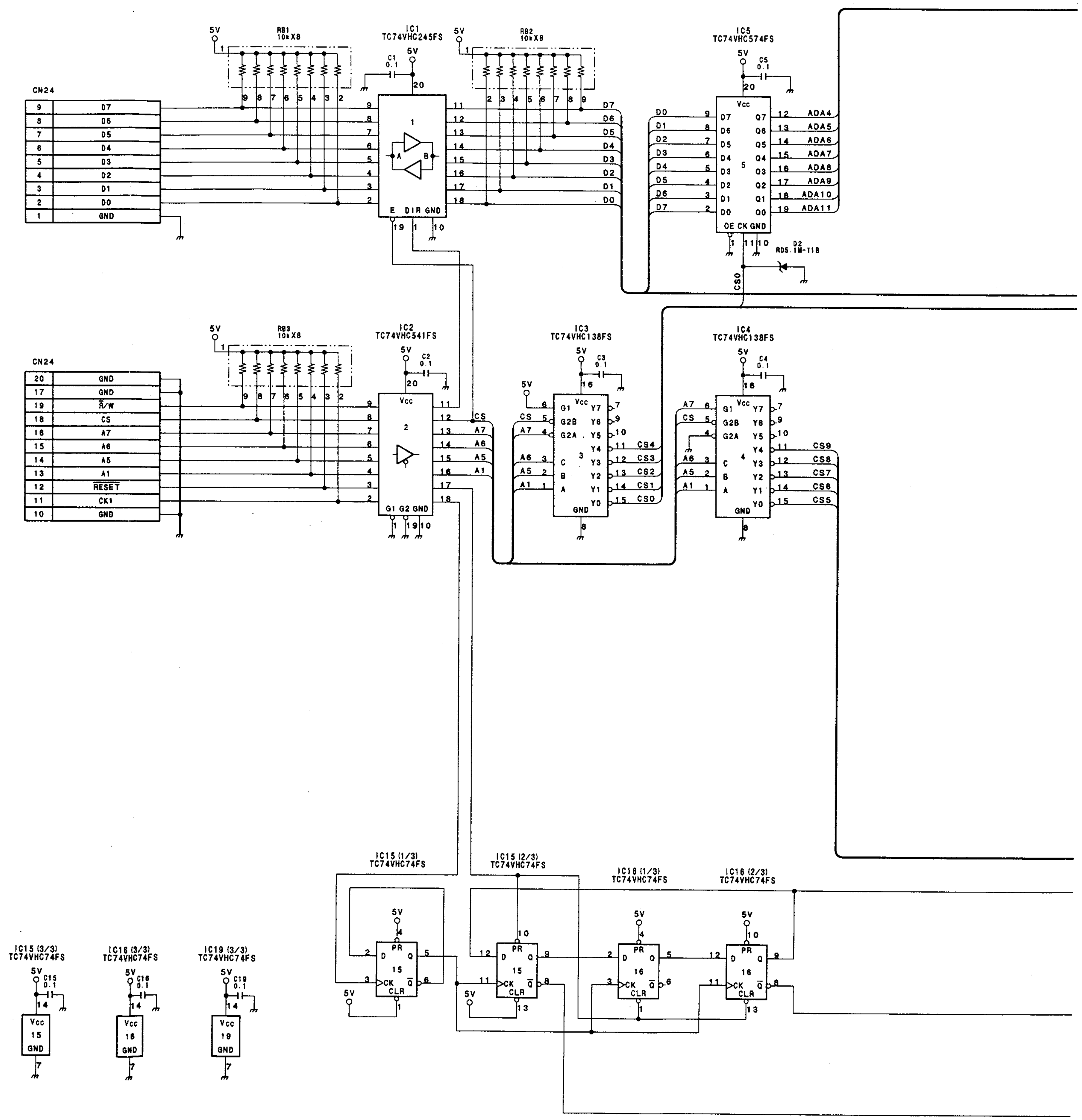
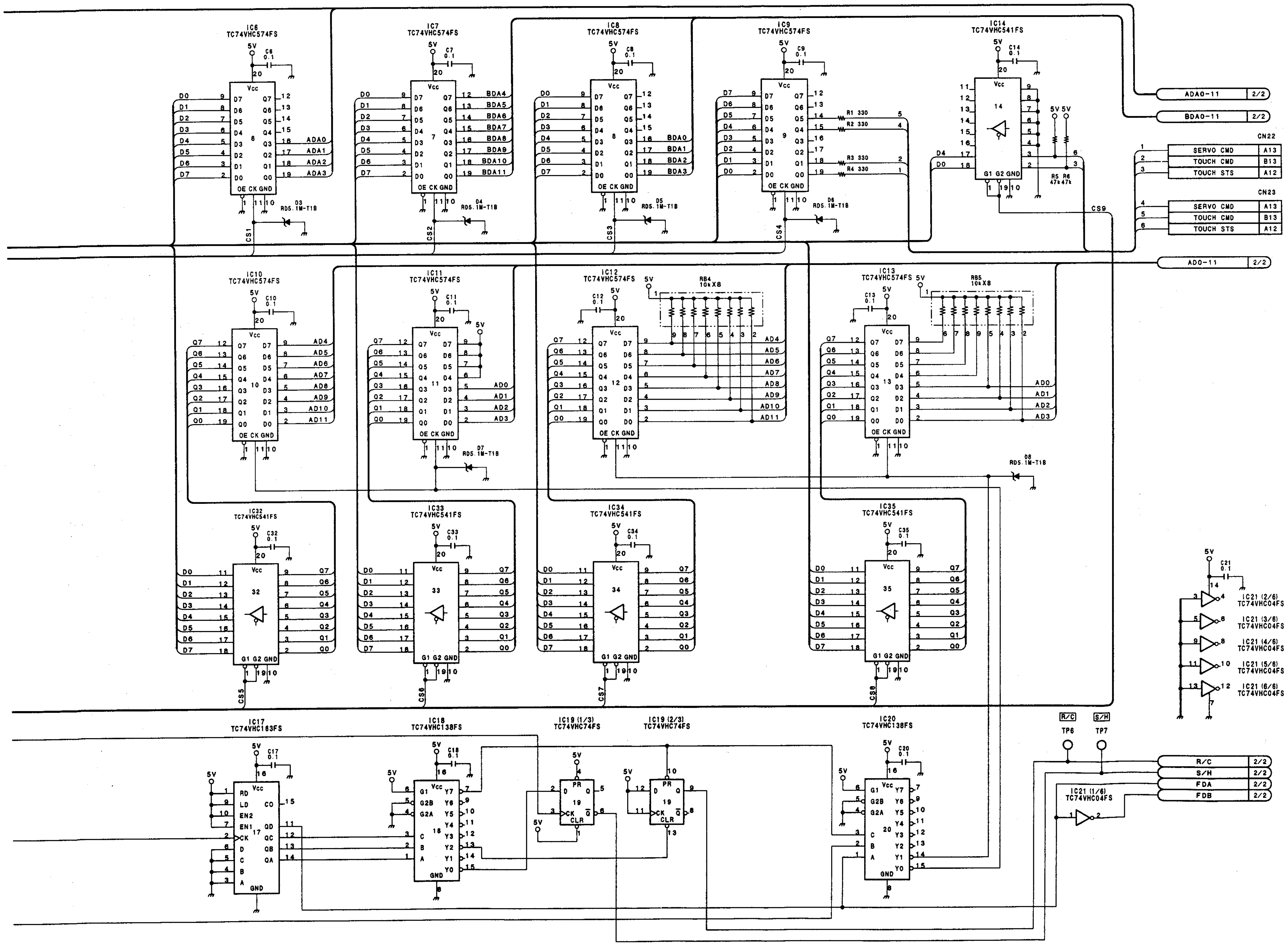
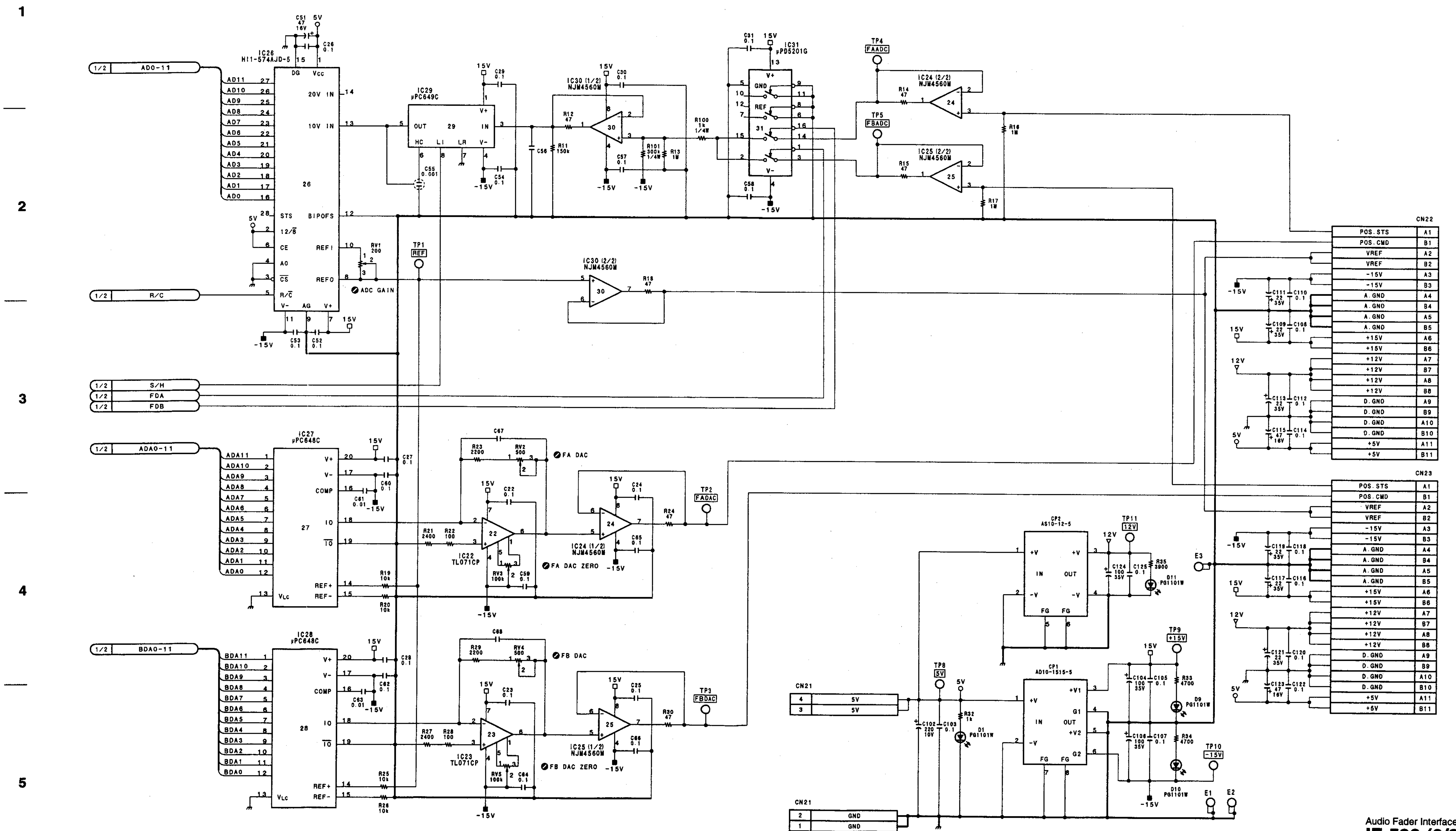

CN24
9 D7
8 D6
7 D5
6 D4
5 D3
4 D2
3 D1
2 D0
1 GND
5V
RB1 10k X8
IC1 TC74VHC245FS
C1 0.1
A
B
E DIR GND
RB2 10k X8
IC5 TC74VHC574FS
C5 0.1
Vcc
OE CK GND
ADA4
ADA5
ADA6
ADA7
ADA8
ADA9
ADA10
ADA11
D2 RD5.1M-T1B
CS0
CN24
20 GND
17 GND
19 R/W
18 CS
16 A7
15 A6
14 A5
13 A1
12 RESET
11 CK1
10 GND
RB3 10k X8
IC2 TC74VHC541FS
C2 0.1
G1 G2 GND
IC3 TC74VHC138FS
C3 0.1
G1
G2B
G2A
C
B
A
Y7
Y6
Y5
Y4
Y3
Y2
Y1
Y0
CS4
CS3
CS2
CS1
CS0
IC4 TC74VHC138FS
C4 0.1
CS9
CS8
CS7
CS6
CS5
IC15 (1/3) TC74VHC74FS
IC15 (2/3) TC74VHC74FS
IC16 (1/3) TC74VHC74FS
IC16 (2/3) TC74VHC74FS
PR
D
Q
CK
CLR
IC15 (3/3) TC74VHC74FS
C15 0.1
IC16 (3/3) TC74VHC74FS
C16 0.1
IC19 (3/3) TC74VHC74FS
C19 0.1
Vcc
GND

A | B | C | D | E | F | G | H


IC6 TC74VHC574FS
IC7 TC74VHC574FS
IC8 TC74VHC574FS
IC9 TC74VHC574FS
IC14 TC74VHC541FS
IC10 TC74VHC574FS
IC11 TC74VHC574FS
IC12 TC74VHC574FS
IC13 TC74VHC574FS
IC32 TC74VHC541FS
IC33 TC74VHC541FS
IC34 TC74VHC541FS
IC35 TC74VHC541FS
IC17 TC74VHC163FS
IC18 TC74VHC138FS
IC19 (1/3) TC74VHC74FS
IC19 (2/3) TC74VHC74FS
IC20 TC74VHC138FS
IC21 (1/6) TC74VHC04FS
IC21 (2/6) TC74VHC04FS
IC21 (3/6) TC74VHC04FS
IC21 (4/6) TC74VHC04FS
IC21 (5/6) TC74VHC04FS
IC21 (6/6) TC74VHC04FS
RB4 10k X8
RB5 10k X8
R1 330
R2 330
R3 330
R4 330
R5 R6 47k 47k
D3 RD5.1M-T1B
D4 RD5.1M-T1B
D5 RD5.1M-T1B
D6 RD5.1M-T1B
D7 RD5.1M-T1B
D8 RD5.1M-T1B
ADA0-11 2/2
BDA0-11 2/2
AD0-11 2/2
CN22
SERVO CMD A13
TOUCH CMD B13
TOUCH STS A12
CN23
SERVO CMD A13
TOUCH CMD B13
TOUCH STS A12
CS1
CS2
CS3
CS4
CS5
CS6
CS7
CS8
CS9
TP6 R/C
TP7 S/H
R/C 2/2
S/H 2/2
FDA 2/2
FDB 2/2
1
2
3
4
5
I
J
K
L
M
N
O
P

Audio Fader Interface Board
IF-533 (1/2)
BKDS-M1040
BOARD NO. 1-658-380-11
LOT NO. 506-
FOR BKDS-M1010
B-¥SJXA079-IF533

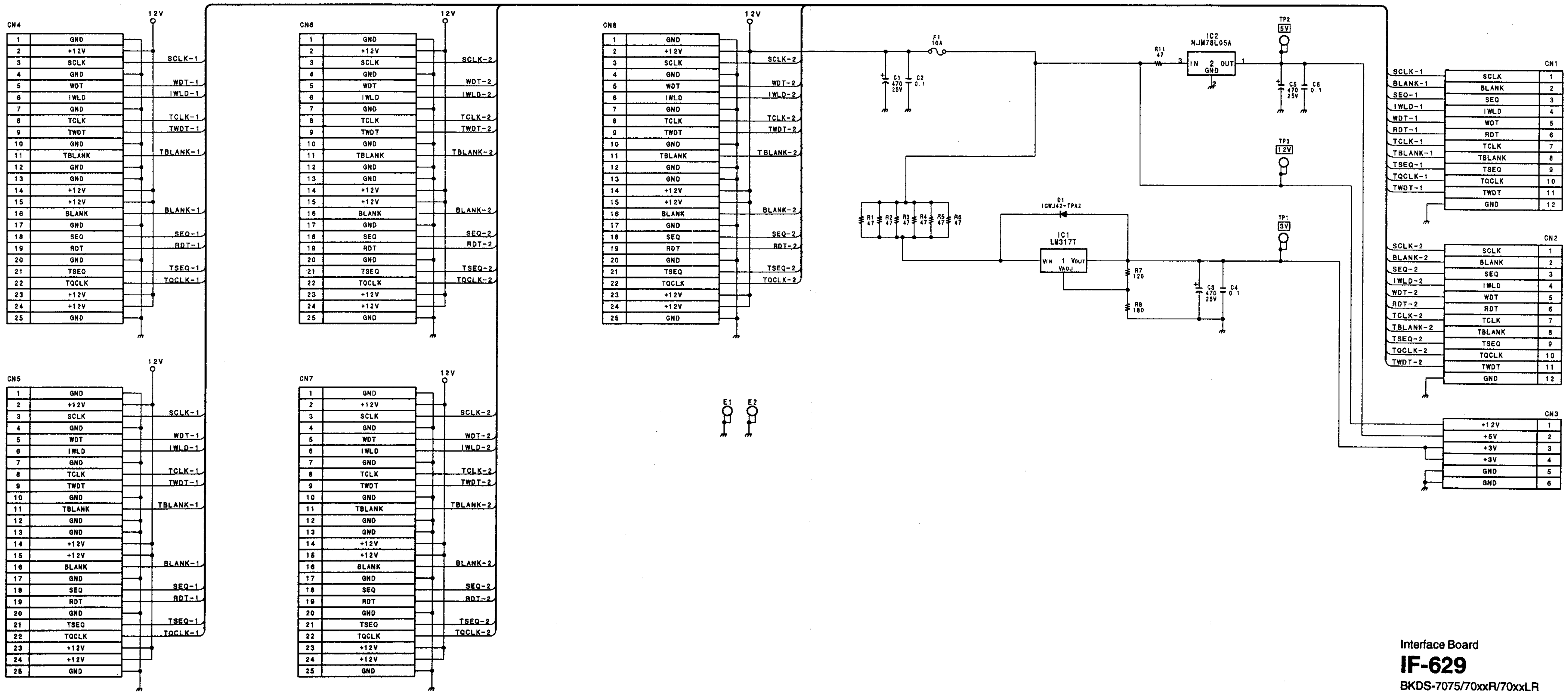
BKDS-M1040 (SY) : S/N 10001 and Higher


1
2
3
4
5
IC26 HI1-574AJD-5
AD0-11
R/C
S/H
FDA
FDB
ADA0-11
BDA0-11
1/2
IC29 μPC649C
IC30 (1/2) NJM4560M
IC30 (2/2) NJM4560M
IC31 μPD5201G
IC24 (2/2) NJM4560M
IC25 (2/2) NJM4560M
TP1 REF
TP2 FADAC
TP3 FBDAC
TP4 FAADC
TP5 FBADC
ADC GAIN
IC27 μPC648C
IC28 μPC648C
IC22 TL071CP
IC23 TL071CP
IC24 (1/2) NJM4560M
IC25 (1/2) NJM4560M
FA DAC
FA DAC ZERO
FB DAC
FB DAC ZERO
CP2 AS10-12-5
CP1 AD10-1515-5
TP8 5V
TP9 +15V
TP10 -15V
TP11 12V
D1 PG1101W
D9 PG1101W
D10 PG1101W
D11 PG1101W
CN21
5V
GND
CN22
CN23
POS.STS
POS.CMD
VREF
-15V
A.GND
+15V
+12V
D.GND
+5V
E1
E2
E3

Audio Fader Interface Board
IF-533 (2/2)
BKDS-M1040
BOARD NO. 1-658-380-11
LOT NO. 506-
FOR BKDS-M1010
8-¥SJXA079-IF533

A | B | C | D | E | F | G | H

BKDS-7075 (SY) : S/N 10001 and Higher
BKDS-70xxR/70xxLR (SY) : S/N 10001 and Higher


CN4
CN5
CN6
CN7
CN8
1 GND
2 +12V
3 SCLK
4 GND
5 WDT
6 IWLD
7 GND
8 TCLK
9 TWDT
10 GND
11 TBLANK
12 GND
13 GND
14 +12V
15 +12V
16 BLANK
17 GND
18 SEQ
19 RDT
20 GND
21 TSEQ
22 TQCLK
23 +12V
24 +12V
25 GND
12V
SCLK-1
WDT-1
IWLD-1
TCLK-1
TWDT-1
TBLANK-1
BLANK-1
SEQ-1
RDT-1
TSEQ-1
TQCLK-1
SCLK-2
WDT-2
IWLD-2
TCLK-2
TWDT-2
TBLANK-2
BLANK-2
SEQ-2
RDT-2
TSEQ-2
TQCLK-2
F1 10A
C1 470 25V
C2 0.1
R11 47
IC2 NJM78L05A
IN 2 OUT
GND
TP2 5V
C5 470 25V
C6 0.1
TP3 12V
R1 47
R2 47
R3 47
R4 47
R5 47
R6 47
D1 1GWJ42-TPA2
IC1 LM317T
VIN 1 VOUT
VADJ
R7 120
R8 180
C3 470 25V
C4 0.1
TP1 3V
E1
E2
CN1
CN2
SCLK 1
BLANK 2
SEQ 3
IWLD 4
WDT 5
RDT 6
TCLK 7
TBLANK 8
TSEQ 9
TQCLK 10
TWDT 11
GND 12
CN3
+12V 1
+5V 2
+3V 3
+3V 4
GND 5
GND 6

Interface Board
IF-629
BKDS-7075/70xxR/70xxLR
BOARD NO. 1-661-209-11
LOT NO. 601-
B-¥SJXA076-IF629

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

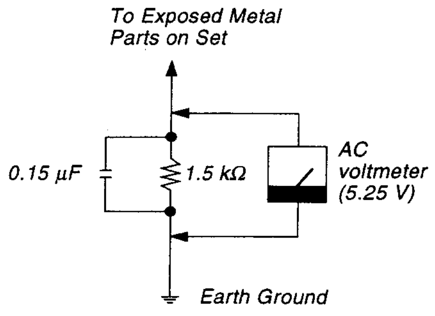

Fig. A. Using an AC voltmeter to check AC leakage.

DVS-M1000C (SY)
DVS-7000 (SY)
DMK-7000 (SY) J, E
9-967-624-02

Sony Corporation
Broadcast Products Company

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SP0385

SONY

DIGITAL MASTER SWITCHER
DVS-M1000C
DIGITAL VIDEO SWITCHER
DVS-7000/7200
DIGITAL MULTI KEYER
DMK-7000

AUX BUS REMOTE PANEL
BKDS-7080/7081

SUPPLEMENT-4

FOR MAINTENANCE MANUAL Part 2 Volume 5
SCHEMATIC DIAGRAMS 1 (A through I)

このSUPPLEMENTを，お手持ちのマニュアルに追加してご使用ください。
Please add the pages from this supplement to your own manual.

対象マニュアル (部品番号) /Applicable Manual (Manual Code)
1st Edition Rev.2 (9-967-624-03)

内容 /Contents
上記機種に関する情報追加
Additional information for the above models.

Section 1	Location of Mounted Circuit Boards
Section 2	Overall Block Diagram & Frame Wiring
Section 3	Schematic Diagrams

DMK-7000 (SY)
DVS-7000/7200 (SY)
DVS-M1000C (SY) J, E
9-967-624-84

Sony Corporation
Communication System Solutions Network Company

Printed in Japan
2000. 2 08

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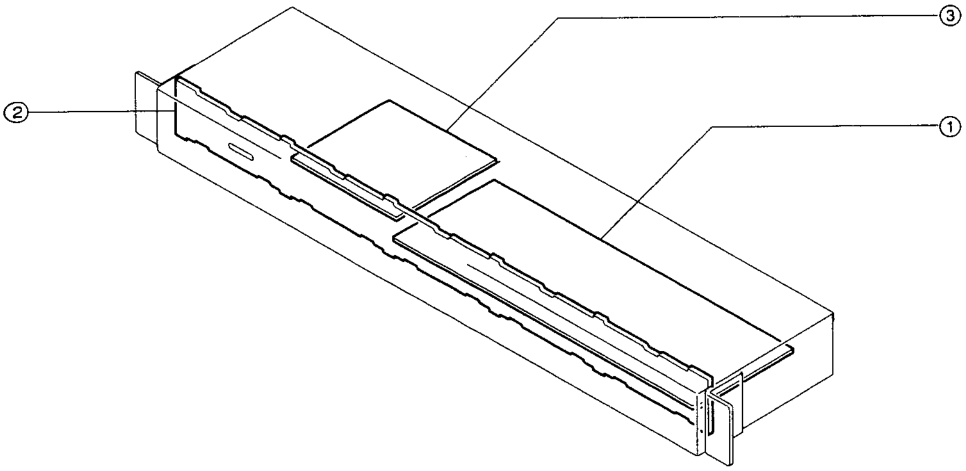
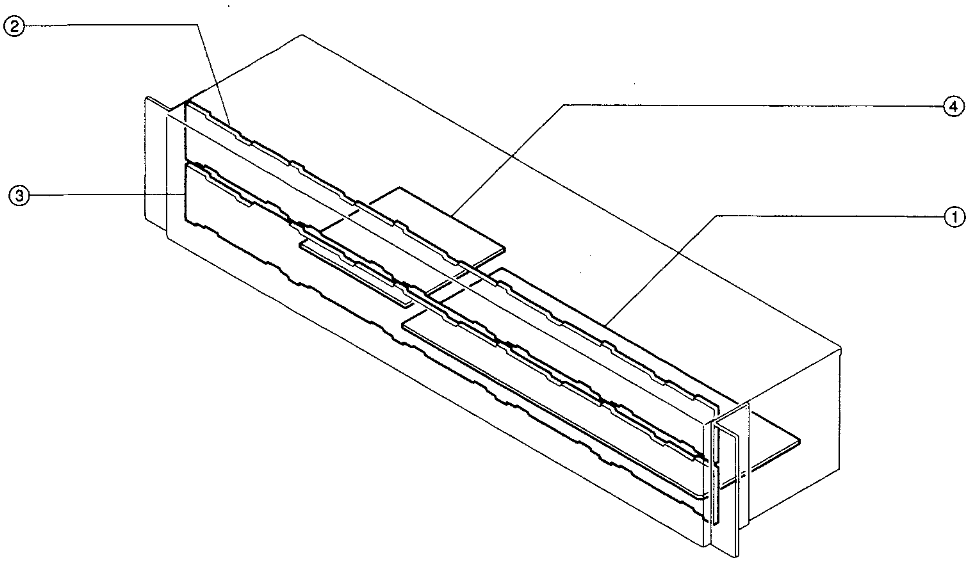
Section 1
Location of Mounted Circuit Boards

1-1. BKDS-7080



No.	Board name	Circuit function	Model name
1	CPU-306	System Control Board	BKDS-7080
2	KY-469A	Switch Board	
3	Switching Regulator	Power Supply	

1-2. BKDS-7081



No.	Board name	Circuit function	Model name
1	CPU-306	System Control Board	BKDS-7081
2	KY-469B	Switch Board	
3	KY-469C	Switch Board	
4	Switching Regulator	Power Supply	

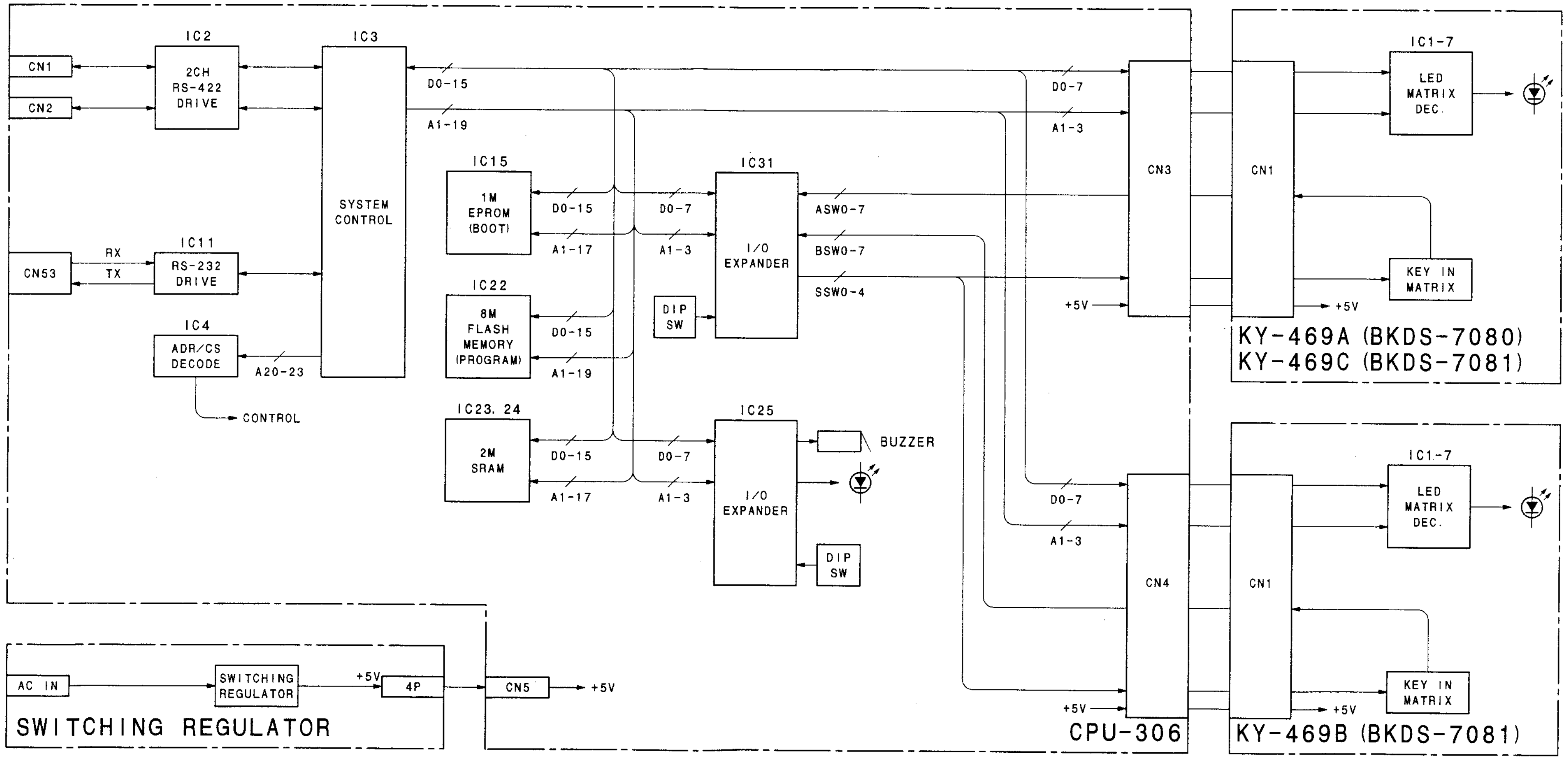
Index

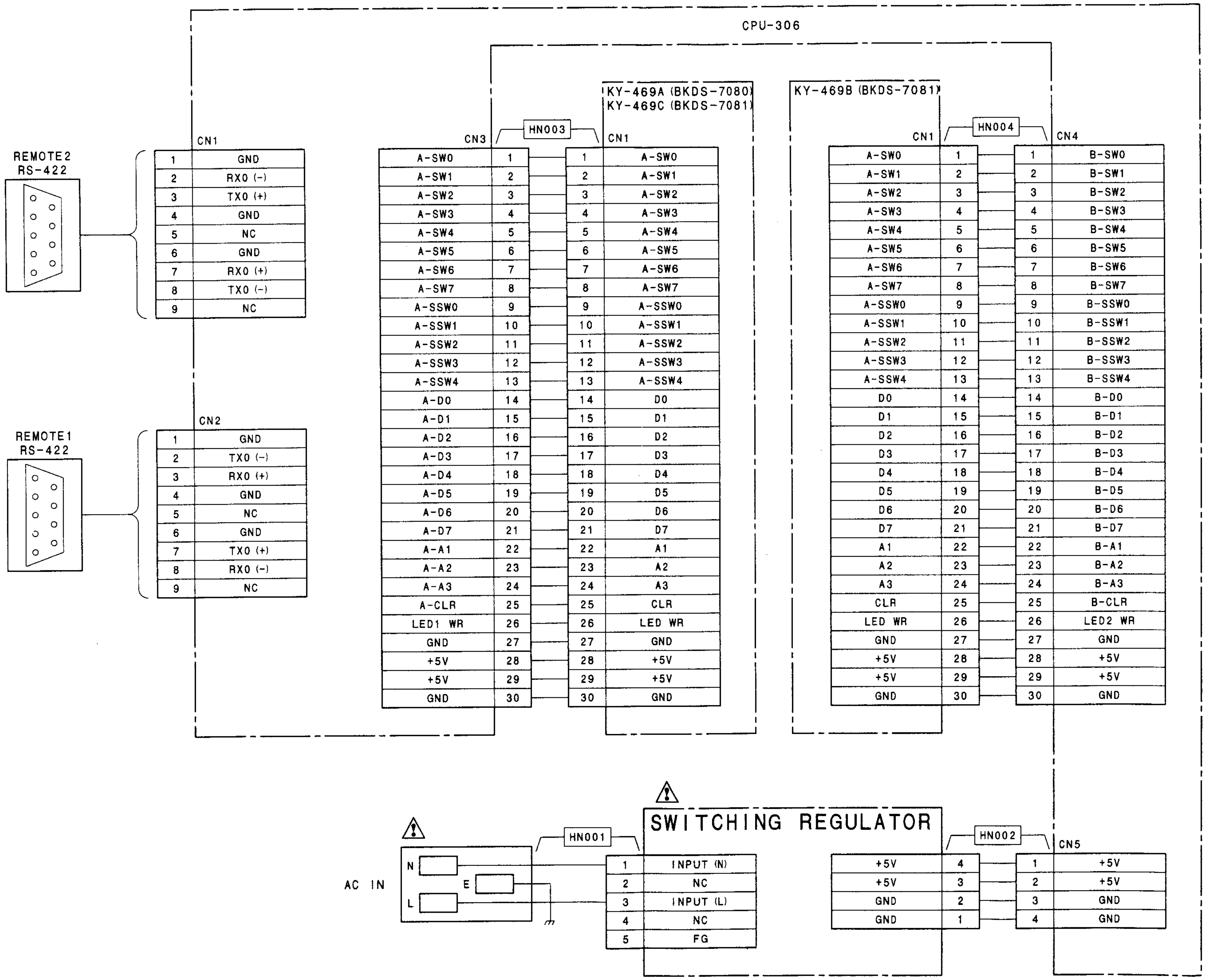
Section 2
Overall Block Diagram & Frame Wiring

BKDS-7080/7081 AUX BUS Remote Panel

No.	Board name	Circuit function	Model name	Page
1	Overall	—	BKDS-7080/7081	2-2
2	Frame Wiring	—	BKDS-7080/7081	2-3

2-1


CN1
CN2
IC2
2CH RS-422 DRIVE
IC3
SYSTEM CONTROL
D0-15
A1-19
CN53
RX
TX
IC11
RS-232 DRIVE
IC4
ADR/CS DECODE
A20-23
CONTROL
IC15
1M EPROM (BOOT)
D0-15
A1-17
IC22
8M FLASH MEMORY (PROGRAM)
D0-15
A1-19
IC23, 24
2M SRAM
D0-15
A1-17
D0-7
A1-3
IC31
I/O EXPANDER
DIP SW
ASW0-7
BSW0-7
SSW0-4
IC25
I/O EXPANDER
D0-7
A1-3
BUZZER
DIP SW
D0-7
A1-3
CN3
+5V
D0-7
A1-3
CN4
+5V
CPU-306
CN1
IC1-7
LED MATRIX DEC.
KEY IN MATRIX
+5V
KY-469A (BKDS-7080)
KY-469C (BKDS-7081)
CN1
IC1-7
LED MATRIX DEC.
KEY IN MATRIX
+5V
KY-469B (BKDS-7081)
AC IN
SWITCHING REGULATOR
+5V
4P
SWITCHING REGULATOR
CN5
+5V


CPU-306
REMOTE2
RS-422
CN1
REMOTE1
RS-422
CN2
CN3
HN003
KY-469A (BKDS-7080)
KY-469C (BKDS-7081)
CN1
KY-469B (BKDS-7081)
CN1
HN004
CN4
AC IN
N
E
L
HN001
SWITCHING REGULATOR
HN002
CN5

CN1	
1	GND
2	RX0 (-)
3	TX0 (+)
4	GND
5	NC
6	GND
7	RX0 (+)
8	TX0 (-)
9	NC

CN2	
1	GND
2	TX0 (-)
3	RX0 (+)
4	GND
5	NC
6	GND
7	TX0 (+)
8	RX0 (-)
9	NC

	CN3	CN1	
A-SW0	1	1	A-SW0
A-SW1	2	2	A-SW1
A-SW2	3	3	A-SW2
A-SW3	4	4	A-SW3
A-SW4	5	5	A-SW4
A-SW5	6	6	A-SW5
A-SW6	7	7	A-SW6
A-SW7	8	8	A-SW7
A-SSW0	9	9	A-SSW0
A-SSW1	10	10	A-SSW1
A-SSW2	11	11	A-SSW2
A-SSW3	12	12	A-SSW3
A-SSW4	13	13	A-SSW4
A-D0	14	14	D0
A-D1	15	15	D1
A-D2	16	16	D2
A-D3	17	17	D3
A-D4	18	18	D4
A-D5	19	19	D5
A-D6	20	20	D6
A-D7	21	21	D7
A-A1	22	22	A1
A-A2	23	23	A2
A-A3	24	24	A3
A-CLR	25	25	CLR
LED1 WR	26	26	LED WR
GND	27	27	GND
+5V	28	28	+5V
+5V	29	29	+5V
GND	30	30	GND

	CN1	CN4	
A-SW0	1	1	B-SW0
A-SW1	2	2	B-SW1
A-SW2	3	3	B-SW2
A-SW3	4	4	B-SW3
A-SW4	5	5	B-SW4
A-SW5	6	6	B-SW5
A-SW6	7	7	B-SW6
A-SW7	8	8	B-SW7
A-SSW0	9	9	B-SSW0
A-SSW1	10	10	B-SSW1
A-SSW2	11	11	B-SSW2
A-SSW3	12	12	B-SSW3
A-SSW4	13	13	B-SSW4
D0	14	14	B-D0
D1	15	15	B-D1
D2	16	16	B-D2
D3	17	17	B-D3
D4	18	18	B-D4
D5	19	19	B-D5
D6	20	20	B-D6
D7	21	21	B-D7
A1	22	22	B-A1
A2	23	23	B-A2
A3	24	24	B-A3
CLR	25	25	B-CLR
LED WR	26	26	LED2 WR
GND	27	27	GND
+5V	28	28	+5V
+5V	29	29	+5V
GND	30	30	GND

1	INPUT (N)
2	NC
3	INPUT (L)
4	NC
5	FG

		CN5	
+5V	4	1	+5V
+5V	3	2	+5V
GND	2	3	GND
GND	1	4	GND

Section 3
Schematic Diagrams

BKDS-7080/7081 AUX BUS Remote Panel

No.	Board name	Circuit function	Model name	Page
1	CPU-306	System Control Board	BKDS-7080/7081	3-2

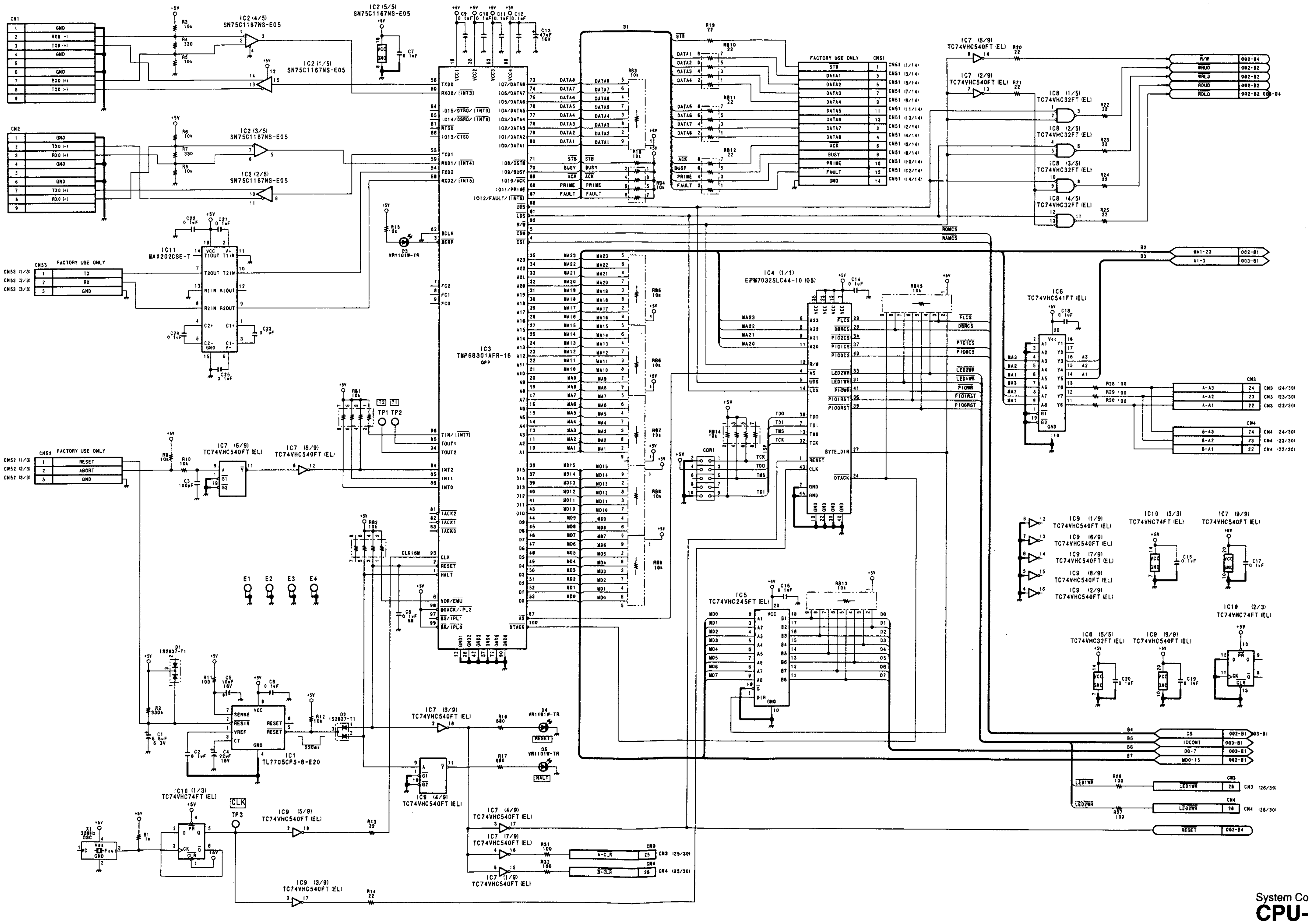
1

2

3

4

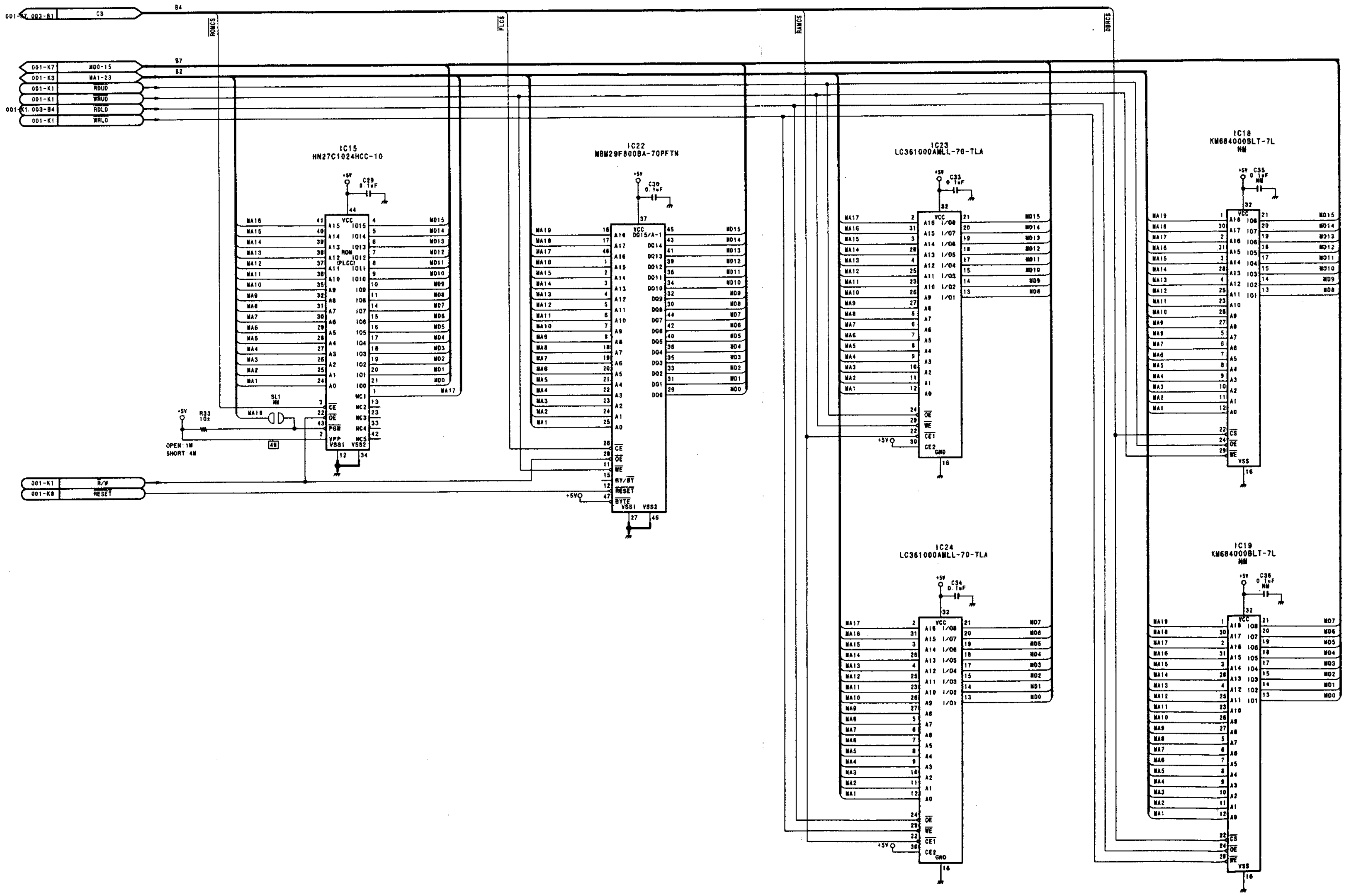
5


CN1
CN2
CNS1 FACTORY USE ONLY
CNS2 FACTORY USE ONLY
CNS3 FACTORY USE ONLY
IC1 TL7705CPS-B-E20
IC2 SN75C1167NS-E05
IC3 TMP68301AFR-16
IC4 EPM7032SLC44-10 (05)
IC5 TC74VHC245FT (EL)
IC6 TC74VHC541FT (EL)
IC7 TC74VHC540FT (EL)
IC8 TC74VHC32FT (EL)
IC9 TC74VHC540FT (EL)
IC10 TC74VHC74FT (EL)
IC11 MAX202CSE-T
TP1
TP2
TP3
CLK
RESET
HALT
E1 E2 E3 E4
CN3
CN4
R/W
A-CLR
B-CLR
LED1WR
LED2WR

System Control Board
CPU-306 (1/3)
BOARD NO. 1-677-086-11
LOT NO. 910-
BKDS-7080/7081
BKDS-7080_CPU-306_002_1

A | B | C | D | E | F | G | H

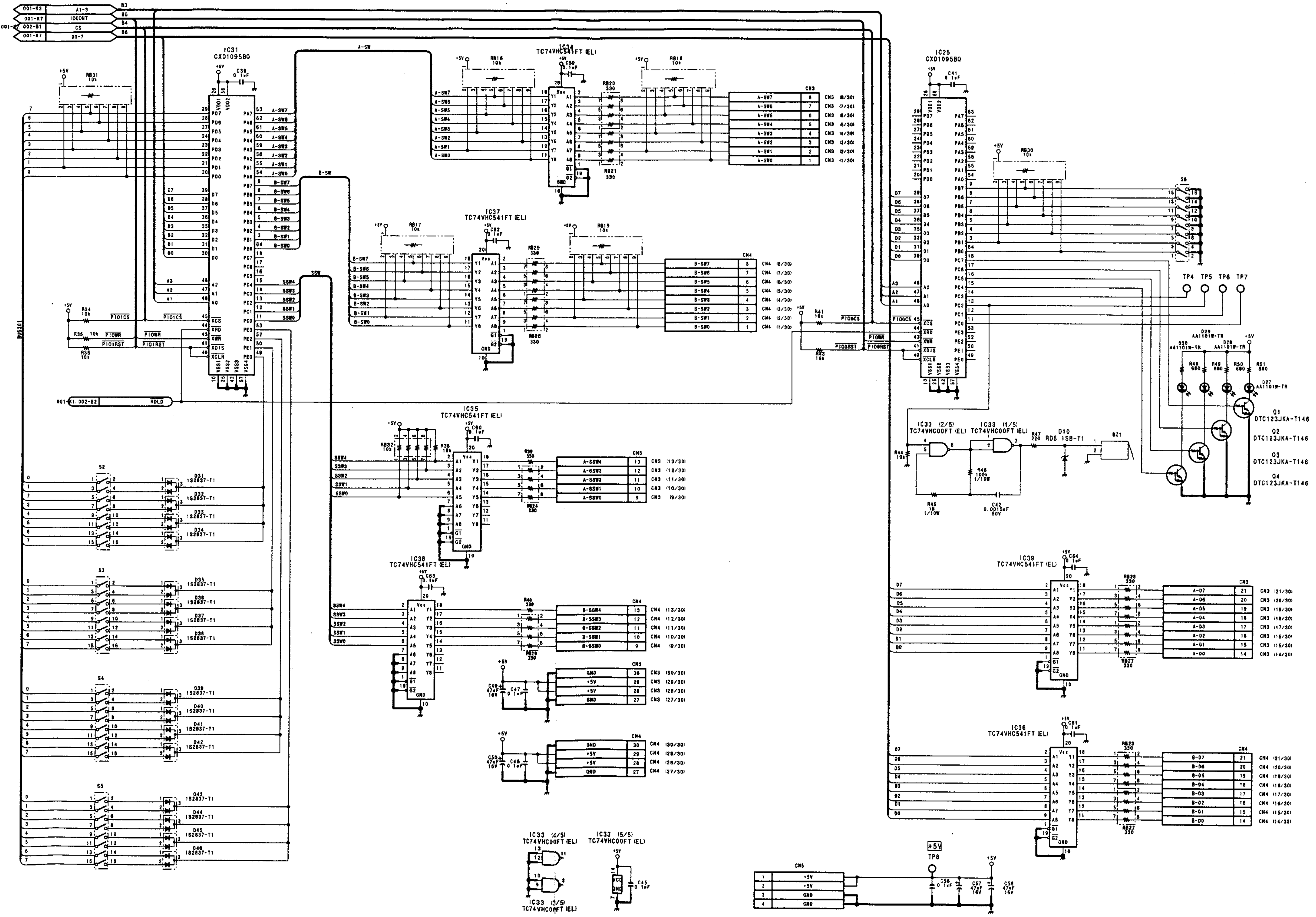
CPU-306 (2/3)


001-K7, 003-B1
CS
B4
ROMCS
FLCS
RAMCS
SRMCS
001-K7
MD0-15
001-K3
MA1-23
001-K1
RDUO
WRUO
001-K1, 003-B4
RDLO
WRLO
B7
B2
IC15
HN27C1024HCC-10
C29
0.1uF
+5V
ROM
(PLCC)
SL1
NM
R33
10k
OPEN 1M
SHORT 4M
001-K1
R/W
001-K8
RESET
IC22
MBM29F800BA-70PFTN
C30
0.1uF
IC23
LC361000AMLL-70-TLA
C33
0.1uF
IC24
LC361000AMLL-70-TLA
C34
0.1uF
IC18
KM684000BLT-7L
NM
C35
0.1uF
NM
IC19
KM684000BLT-7L
NM
C36
0.1uF
NM

System Control Board
CPU-306 (2/3)
BOARD NO. 1-677-086-11
LOT NO. 910-
BKDS-7080/7081
BKDS-7080_CPU-306_002_2

3-3

CPU-306 (3/3)


IC31
CXD1095BQ
IC25
CXD1095BQ
IC34
TC74VHC541FT (EL)
IC37
TC74VHC541FT (EL)
IC35
TC74VHC541FT (EL)
IC38
TC74VHC541FT (EL)
IC39
TC74VHC541FT (EL)
IC36
TC74VHC541FT (EL)
IC33 (2/5)
TC74VHC00FT (EL)
IC33 (1/5)
TC74VHC00FT (EL)
IC33 (4/5)
TC74VHC00FT (EL)
IC33 (5/5)
TC74VHC00FT (EL)
IC33 (3/5)
TC74VHC00FT (EL)
S2
S3
S4
S5
S6
CN3
CN4
CN6
BZ1
D10
TP4
TP5
TP6
TP7
TP8
+5V
Q1
DTC123JKA-T146
Q2
DTC123JKA-T146
Q3
DTC123JKA-T146
Q4
DTC123JKA-T146
1
2
3
4
5
A
B
C
D
E
F
G
H

System Control Board

CPU-306 (3/3)

BOARD NO. 1-677-086-11
LOT NO. 910-
BKDS-7080/7081
BKDS-7080_CPU-306_002_3

3-4